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DEPARTMENT OF AGRICULTURE AND TECHNICAL  
INSTRUCTION FOR IRELAND.

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REPORT  
ON THE  
SEA AND INLAND FISHERIES  
OF IRELAND.

FOR

1921.

AGRICULTURE AND TECHNICAL INSTRUCTION  
(IRELAND) ACT, 1899.  
(62 AND 63 VIC., CAP. 50.)

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No. A. 30/5676-23.

AIREACHT TALMHUIOCHTA,  
(Ministry of Agriculture)  
4th May, 1923.

*The President and Members  
of the Executive Council.*

A CHAIRDE,

I submit herewith the Report of the Sea and Inland Fisheries of Ireland for 1921. The Report should be presented to the Oireachtas in accordance with 62 and 63 Vic., Cap. 50, Section 26.

Mise, le meas,

P. HOGAN,  
*Minister.*

---

S. 2167.

OIFIG AN RUNAI DO'N ARD CHOMHAIRLE  
(Office of the Secretary to the  
Executive Council)  
7th May, 1923.

*Minister for Agriculture.*

A CHARA,

I am directed by the Executive Council to acknowledge receipt of your letter of the 4th instant, Ref. 30/5676-23, transmitting copy of the Report of the Sea and Inland Fisheries of Ireland for 1921.

Mise, le meas.

M. MACDONNCHADHA,  
*Gníomh Runai.*

# SEA AND INLAND FISHERIES OF IRELAND, 1921.

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## REPORT

TO THE

SECRETARY OF THE DEPARTMENT OF AGRICULTURE  
AND TECHNICAL INSTRUCTION FOR IRELAND.

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SIR,

We have the honour to submit the Report for the year ended 31st December, 1921, on the Sea and Inland Fisheries of Ireland.

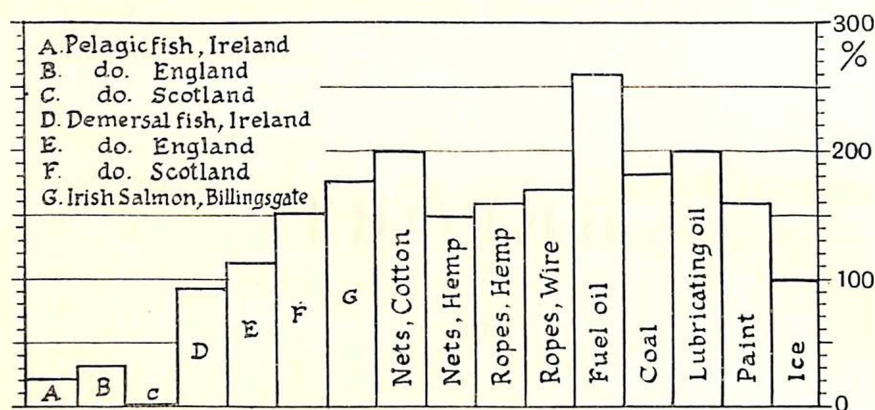
### GENERAL OBSERVATIONS.

The history of Irish Fisheries in 1921 cannot be said to contain many gratifying features. The dominating conditions were the difficulty attending the transport of fish to market, not only during the period of the coal strike but practically throughout the entire year, a notable shortage of mackerel and herrings and a fall in the value of fish out of proportion to any decrease in the cost of production. We have attempted to represent this last condition in the diagram (Fig. 1) on page iv., in which are shown the principal items in fishermen's balance sheets; the height of each column indicates the excess of average value or cost in 1921 expressed as a percentage of the corresponding figure for 1913. Columns A, B, and C represent the average value of mackerel, herrings and sprats to the fishermen at the port of landing. D, E, and F are the same for trawled and line-caught fish. G. represents the enhanced value of the most highly priced fish delivered in the best market; in view of increased transit charges, its value to the fishermen was relatively lower. Cotton nets, hemp ropes and fuel oil are items specially



affecting drift-net fisheries ; hemp nets, wire ropes and coal are requirements of steam trawlers ; the other items are common to most branches of the industry. Fuel oil fell considerably during the year ; but the average cost per gallon was 260 per cent. higher than in 1913.

Fig. 1.



1921. Percentage excess of Prices over those of 1913.

Not only was the value of fish low relatively to the cost of production, but the shortage of fish further reduced the money available for distribution among the sea-fishing community. The total receipts fell from £35 per fisherman in 1920 to £26 in 1921.

It is not, however, to be supposed that Irish fishermen are alone in passing through bad times ; reports which we have received show that similar troubles have fallen upon other countries on both sides of the Atlantic.

## SEA FISHERIES.

### VESSELS AND CREWS.

In Appendix No. 2 page 6, the numbers and classification of the vessels and the numbers of men engaged in the sea fisheries during the year are shown in much greater detail than in any of our previous Reports. In consequence of this alteration in the method of tabulation it has not been possible to publish, in the Appendix referred to, the usual comparison between these figures and those for the previous year ; the totals, however, were as follows :—

	First Class.	Second Class.	Third Class	Small Open Boats.
1921	285	1,994	480	1,591
1920	324	1,894	464	1,615

4,350 vessels and boats with aggregate crews of 15,559 men were engaged in 1921, while 4,319 vessels and boats and 15,677 men were engaged in 1920. The total of 4,350 consisted of 9 steam, 525 motor and 3,816 other craft.

The following table shows the ports from which fishing by the *Snurrevaad*, or Danish Seine Net was carried on during the year. This method of fishing is pursued only by motor boats and is prosecuted throughout the year whenever the weather is suitable :—

Port.	NUMBER OF MOTOR BOATS ENGAGED.					No. of Persons Engaged.
	1st Class.			2nd Class.		
	Over 25 tons.	20-25 tons.	15-20 tons.	10-15 tons and of 18 ft. keel & upwards.	Under 10 tons and of 18 ft. keel and upwards.	
Kingscend ...	—	—	—	1	—	4
Arklow ...	—	—	—	1	—	5
Rosslare ...	—	—	—	1	—	4
Schull ...	—	—	—	—	1	4
Cushendun ...	—	—	—	—	1	3
Portavogie ...	—	—	5	—	—	25
Annalong ...	—	—	2	—	—	9
Clogher Head ...	—	—	—	1	—	5
Balbriggan ...	5	1	1	1	1	51
Skerries ...	—	—	—	1	—	5
Loughshinney ...	—	—	1	—	—	6
Totals ...	5	1	9	6	3	121

The *Snurrevaad*, invented by Jens Laursen Væver, of Krejbjerg, in 1848, was introduced on the East Coast of Ireland by the Department in 1908, as a method of fishing specially suitable for the motor fishing vessels which were being brought into use at the same time. Its use appears to have some advantages, as compared with trawling, in regard to the power required and the condition of the fish when landed. Save when deliberately pushed into shallow water it also seems to involve less destruction of immature fish; but from this point of view local by-laws have been found desirable to close certain inshore areas and to fix a minimum size of mesh. Varieties of the original plaice-seine have been developed in Denmark, for the capture of haddock and other round fish in comparatively deep water; but these have not been tried, so far, on the Irish coast. During the past year, the arrival of Danish vessels to land their catches on the East Coast of Great Britain drew attention to the profitable nature of this method of fishing, with the result that several steam vessels have been fitted out for seining, not only on normal trawling grounds but also in places closed to trawling. None of these steam vessels, however, seems to have visited the Irish coast as yet. The *Snurrevaad* is frequently spoken of as

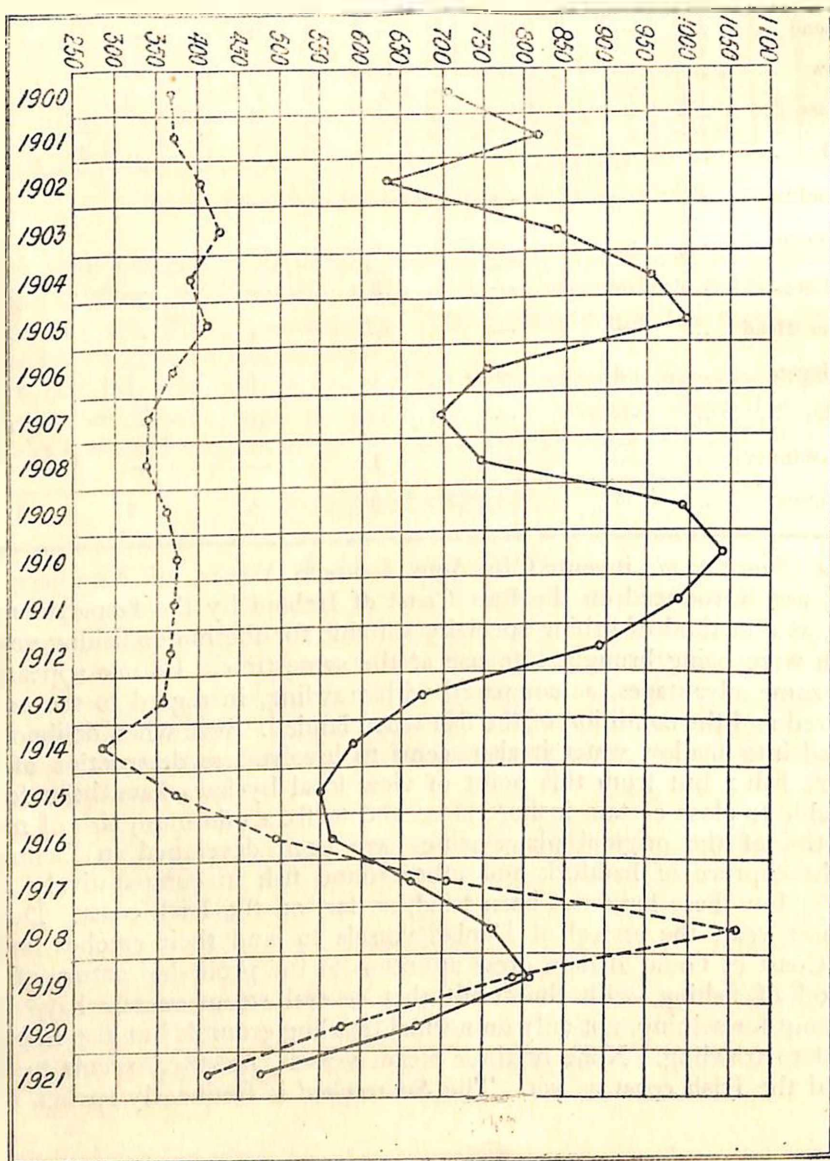
a "Ring-net," but that term was previously appropriated to a seine net used in Co. Donegal.

#### REVIEW OF STATISTICS OF FISH (EXCLUDING SALMON) LANDED.

According to the information furnished to the Department the total quantity of sea fish (other than shell fish) landed in 1921 was 476,482 cwts. valued at £360,977. As the corresponding figures for 1920 were 671,896 cwts. and £535,944 it will be seen that the returns show a decrease of 29% in quantity and 33% in value.

**Quantity of Fish (excluding shell fish) landed ; in thousands of cwts** —————  
**Value of Fish (including shell fish) landed ; in thousands of £** - - - - -

Fig. 2.



Including shell fish, but excluding salmon, the total value for 1921 was £411,176. In 1920 this value was £596,849.

Appendix No. 1 (a) page 4 gives particulars of the average prices of the various kinds of sea-fish during recent years, while the diagram (Fig. 2) on page vi. shows the variations in the quantity and value of the annual landings for the period 1900-21.

#### DUBLIN MARKET RETURNS.

The amount of sea fish captured by trawl and hook which passed through the Dublin market during the year was 3,419 tons, being 161 tons more than that of the previous year.

The fish received from steam trawlers included :—

	Cwts.		Cwts.
Black Soles .. ..	136	Whiting .. ..	7,601
Turbot .. ..	72	Hake .. ..	1,331
Brill .. ..	76	Gurnard .. ..	1,112
Plaice .. ..	1,043	Coalfish .. ..	2,077
Megrimms .. ..	289	Ray .. ..	1,190
Dabs .. ..	1,163	Conger .. ..	937
Cod .. ..	9,162	Haddock .. ..	1,032

The supplies of trawl and hook fish from other Irish sources were :—

#### Tons.

Dublin Bay Boats (not Steamers) ..	138, principally Plaice, Dabs and Ray.
Howth .. ..	472, principally Cod.
Balbriggan .. ..	152, principally Plaice, Dabs and Ray.
Galway .. ..	236, principally Plaice, Ray, Whiting and Haddock.
Dingle .. ..	107, principally Plaice, Black Soles and Ray
Other localities ..	850, principally Cod, Plaice, Haddock, Whiting and Ray.

About 10 tons of imported fresh fish were sold in the Market.

Besides the foregoing, there passed through the Dublin Market during the year 3,970 barrels and 14,748 boxes of Irish fresh herrings and 41 barrels of Irish cured herrings. 1,124 barrels of fresh herrings were imported from Norway, and 39 boxes from Glasgow. 22 barrels of cured herrings were imported from Lowestoft. The mackerel amounted to 312 barrels and 8,705 boxes of Irish caught fish.

The quantities of salmon, trout and shell-fish passing through the Market are not recorded in a form capable of being reduced to a statistical statement

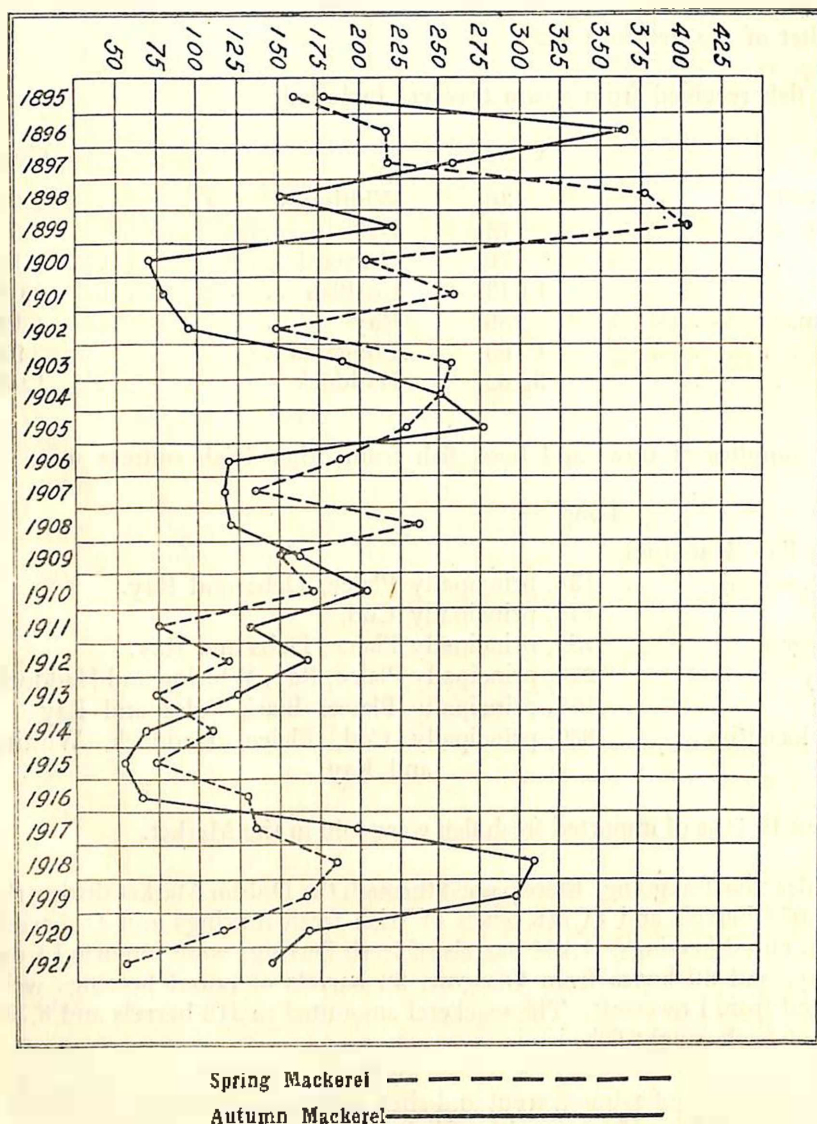


## SPRING MACKEREL FISHERY.

The total landings of the Spring Mackerel Fishery had for many years prior to 1914 been steadily declining. During the period of hostilities the fishery showed a very decided improvement which it was hoped would be maintained in future seasons. Unfortunately, however, the decline in the quantity landed in 1920, which was noticed in the Report for that year, has been followed in 1921 by a very great further decrease.

Fig. 3.

Quantities of Mackerel landed during the years 1895 to 1921 ; in thousands of cwts.



Some 54,000 cwts. valued at £22,684, were captured, being a decrease of 60,000 cwts., and £42,350 on the figures for the previous season. Only 270 barrels were cured for exportation.

32,000 cwts., or four-sevenths of the total capture, were landed at Baltimore.

Detailed information as to the fishery appears in Appendix No. 3, page 12, and a diagram (Fig. 3) illustrating the variations in the mackerel fisheries during the past twenty-seven years is printed on page viii.

#### AUTUMN MACKEREL FISHERY.

145,500 cwts. valued at £61,000 were landed during the autumn mackerel fishing season of the year 1921. In the previous season the figures were 168,000 cwts. and £75,000. The gradual decline in the landings at this fishery appears to prevail on all coasts and this year's fishery was of considerable importance only at certain of the County Kerry ports. For instance, at the three ports of Knightstown, Ballinagall and Ballydonegan over one-third of the total quantity was taken.

35,903 barrels were cured for exportation as against 39,000 barrels in 1920. Further details of the fishery will be found in Appendix No. 4, page 13.

#### SUMMER HERRING FISHERY.

During the years 1919 and 1920 the Summer Herring Fishery showed very satisfactory improvement, but it is to be regretted that the season of 1921 was the worst experienced for very many years. Some 112,000 cwts. only were landed yielding to the fishermen a sum of approximately £51,500, while in the previous year the 184,000 cwts. landed were valued at £116,000. About 55 per cent. of the total capture was landed at the east coast ports of Howth, Kilkeel and Ardglass.

The condition of the Central and Eastern European markets and the want of capital in the industry resulted in the curing (for exportation) of only 1,963 barrels or less than one-seventh of the export in 1920.

Details of the fishery at the more important stations will be found in Appendix No. 5, page 14, and a diagram (Fig. 4) showing the fluctuations of the herring fisheries during the past 17 years is printed on page x.

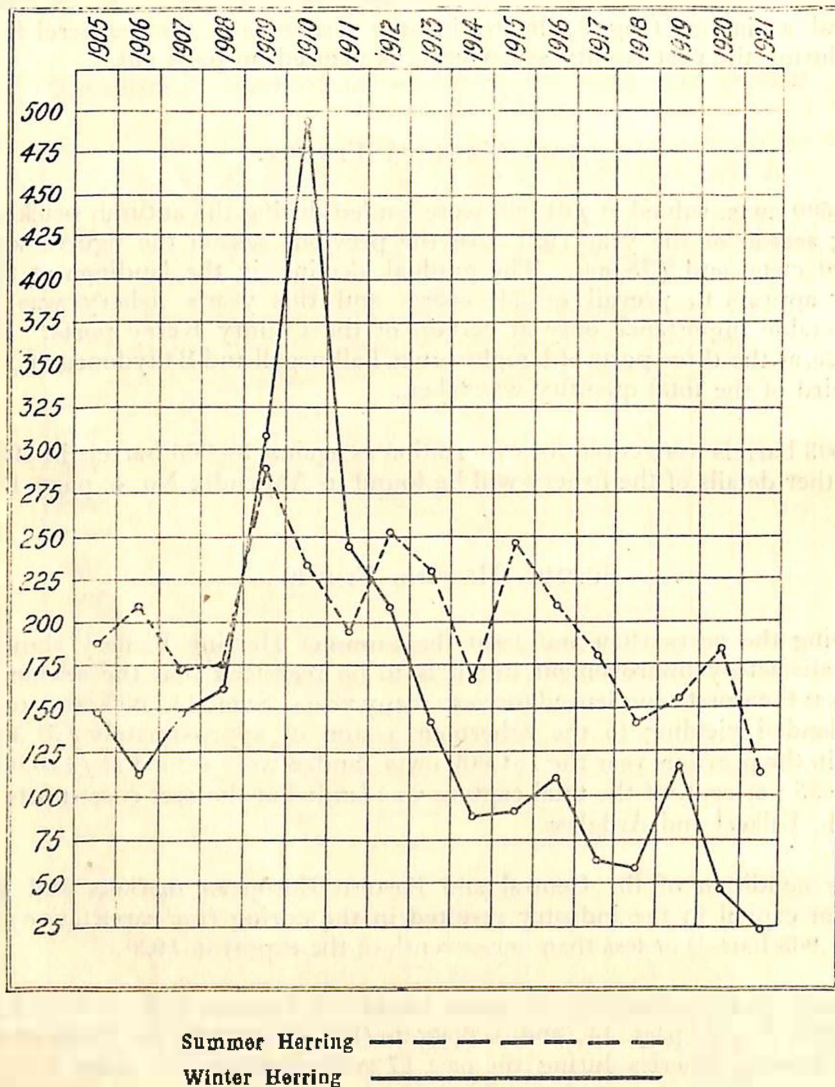
#### WINTER HERRING FISHERY.

During the winter herring fishing season only 23,000 cwts. valued at £11,500 were landed. These figures are the worst which have ever been

recorded. At only six ports were catches in excess of 1,000 cwts. landed and at three ports only (Buncrana, Howth and Kinsale) did the total value of the capture exceed £1,000.

Fig. 4.

**Quantities of Herrings landed during the years 1905 to 1921, in thousands of cwts.**



Note.—Herrings landed, from May to October, inclusive, are included under "Summer Herring." Herrings landed from November to the following April are included under "Winter Herring."

Statistical information prior to the Winter Season of 1911-1912 published in the Annual Reports dealt with seasons of different extent, and, consequently, the figures given in those Reports do not amount to the same totals as shown in above diagram.

Only 60 barrels were cured for exportation.

In the previous season 47,000 cwts. valued at £28,000 were landed and 564 barrels were cured.

Details of the fishery will be found in Appendix No. 6, page 15.

#### WHALING.

Owing to the fall in price of oil, whale fishing operations were discontinued during the year 1921 at the Elly Bay Station, situated on Blacksod Bay.

#### LOANS

During the year ended 31st March, 1922, 32 applications were received from 36 persons for loans amounting to £7,925 18s. 0d. 17 loans were granted to 19 persons to the amount of £3,470. The sum actually issued during the period was £4,341 18s. 5d., which covered part of loans previously sanctioned. About 80% of this sum was for the provision of motor boats.

The promissory notes signed to secure principal and interest, inclusive of £8,176 19s. 11d. of unrepaid notes taken over by the Department at the commencement of their administration of fishery loans in non-congested districts, amount to £153,516 11s. 10d. The amount repaid is £123,714 4s. 6d. while securities on hand, which have not yet matured for payment, represent £21,296 10s. 9d.

The arrears of repayment of instalments reflect fairly clearly the general economic condition of the sea fishing industry. The totals stood as follow on the 31st March in each of the last five years:—1921, £5,626 4s. 6d.; 1920, £799 6s. 4d.; 1919, £1,103 3s. 1d.; 1918, £1,465 4s. 3d.; 1917, £2,607 18s. 8d. The aggregate amount written off as irrecoverable was £1,817 11s. 5d. on the 31st March last.

Further particulars in connection with these loan transactions will be found in Appendix No. 11, pages 21 to 23.

#### KELP.

According to information received some 2,035 tons of kelp were exported during the year 1921 as follows:—

						Tons.
County	Clare	..	..	..	..	665
"	Galway	..	..	..	..	768
"	Mayo	..	..	..	..	125
"	Sligo	..	..	..	..	130
"	Donegal	..	..	..	..	347

The value of the kelp exported was approximately £9,760. In addition, some 400 tons of dried seaweed, moss, etc., were exported, chiefly from the coast of County Galway.

#### SHELL FISHERIES.

Officers appointed by the Department exercised supervision over the public oyster fisheries at Kinsale and Waterford Harbours, at Claren-



bridge (County Galway) and at Inishlyre (County Mayo) ; over the mussel fisheries of Castlemaine Harbour, and the scallop fisheries in Connemara.

From information received by the Department it would appear that the steps taken by them some years ago to resuscitate the oyster fishery of Kinsale Harbour have been successful and the fishery there is now reported to be satisfactory.

#### TECHNICAL INSTRUCTION.

The Department, as in previous years, again subsidised a class in net mending at Kinsale. Practically all the pupils were drawn from the fishing community and an average attendance of 20 was maintained throughout the session.

#### MARINE SUPERINTENDENCE.

During the year 1921 the Department reported to the Customs Authorities four foreign steam trawlers for working in the extra-territorial parts of areas in which steam trawling has been prohibited. The effect of such action is to render fish taken by the trawlers liable to confiscation if landed in the United Kingdom within two months of the date of the offence.

Four French lobster boats were prosecuted at the instance of the Commander of H.M.S. "Dee" for breaches of the territorial limits and fined £4 and £1 costs in each case.

Ten cases of illegal trawling by British steam vessels, and one by a local motor boat, were dealt with. The fines and costs imposed amounted to a total of £879 19s. 2d.

During this year there occurred the first case in which a report under the Trawling in Prohibited Arcas Prevention Act of 1909 has been disputed. On the 24th March, 1920, in consequence of a report furnished by the Department, the Customs Authorities in England seized a cargo of fish landed by a Belgian steam trawler. In consequence of a claim to the fish raised by the owners of the vessel, proceedings for its condemnation were instituted in the High Court, but the case has not yet been brought to trial.

#### PIERS AND HARBOURS.

*Arklow (Co. Wicklow).*—During the year 1921 the Department's suction dredger "Fag-an-Bealach," in 11 days\* working, removed 8,160 cubic yards of sand from the approaches to the harbour.

*Helvick (Co. Waterford).*—The construction of the new harbour was completed at a total cost of £47, 500. The works consist of a pier running in a north-westerly direction for 233 feet and thence westward for a further 300 feet, the latter portion having a depth alongside of  $1\frac{1}{2}$  fathoms at low water of spring tides. The paved surface of the pier is about 24 feet wide, and the shelter wall on the seaward side is carried to  $15\frac{1}{2}$  feet above high water. On the Western side, a breakwater running NNE., 200 feet long,

completes the enclosure of an area approximately  $1\frac{1}{4}$  acres in extent at low water. Within the harbour a boat slip was built, and an evenly graded approach road was carried down to the pier.

The Department's suction dredger worked at Helvick for  $45\frac{1}{2}$  days and removed 12,222 cubic yards of sand.

*Dungarvan (Co. Waterford).*—The suction dredger worked at the inner harbour for 21 days, removing 2,270 cubic yards of sand.

*Knockadoon (Co. Cork).*—The construction of the breakwater, or shelter wall, 276 feet in length, was completed during the year 1921. Owing to the difficulty in obtaining explosives, work in connection with the excavation and clearing of the berthage and the approach to the slip was seriously delayed, but everything has since been completed.

*Balbriggan (Co. Dublin).*—The suction dredger worked at Balbriggan 9 days, removing 2,088 cubic yards of sand from the entrance and outer harbour.

*Clogher Head (Co. Louth).*—A sum of £5,000 was provided by the Inter-departmental Committee for the employment of demobilised men for a scheme of harbour improvement at Port Oriel (Clogher Head), and the Department provided the necessary plant and carried out the work. The improvements consisted of the cutting down of cliffs surrounding an inner harbour or basin, the formation of quays, the construction of an approach road, and various minor items. The works were well advanced at the close of the year and have since been completed.

*Annagassan (Co. Louth).*—The Inter-departmental Committee for the employment of demobilised men made a grant of £500 for the removal of a shoal in the approach channel to the berthage and £950 for the protection of the river bank at Annagassan, where serious erosion was taking place. The stone for the latter purpose was obtained from the works in progress at Clogher Head, and the work was carried out by the Department. 340 lineal feet of the river bank being protected by pitching with a concrete toe and cope and concrete division walls.

In continuation of returns given in previous Reports, it is recorded that during the year ended 31st March, 1922, the expenditure by the Commissioners of Public Works on Burtonport Harbour was £50 17s. 8d.

#### BY-LAWS.

Since the date of our last Report, one By-Law came into operation restricting the use in Dundrum Bay of Seine or Draft Nets hauled by steam or motor power.

A number of By-Laws were made by the Department and promulgated but have not been confirmed, pending the establishment of new procedure for that purpose.

## INLAND FISHERIES.

## SALMON FISHERIES.

From information supplied by the Irish Railway Companies it would appear that the season of 1921 was the best for many years. Out of a total of 21,813 packages of salmon sold at Billingsgate market during 1921, 7,887 came from Ireland. The number of packages of Irish salmon sold there in 1920 was 5,344.

It will be seen from the following statement that the quantity of salmon captured by drift nets off the coast between Roundstone (Co. Galway) and Portrush (Co. Antrim), although showing a great improvement on the previous year, was much below the average :—

Year.	No. of fish landed.	Weight in cwts.
1905,	38,122	2,160
1906,	57,589	3,313
1907,	41,354	2,367
1908,	33,953	2,031
1909,	84,668	4,937
1910,	66,274	3,844
1911,	85,614	4,909
1912,	68,220	3,944
1913,	63,772	3,822
1914,	53,824	3,274
1915,	31,725	1,783
1916,	20,141	1,103
1917,	26,657	1,520
1918,	30,256	1,580
1919,	38,207	2,142
1920,	10,721	615
1921,	18,544	1,145

From the reports submitted by the Clerks to Boards of Conservators, which are summarised in Appendix No. 17, page 46, it would appear that the take of salmon by nets and weirs was in nearly all districts greater than in the previous year. The quantity of grilse captured was less than in 1920.

Angling results were generally not good, particularly after the Spring, owing to the exceptionally dry season. In the Letterkenny and Coleraine Districts, however, the angling season was stated to be good. The number of visiting anglers was much less than usual, owing to the disturbed state of the country.

Some suspected cases of salmon disease are mentioned and cases of poisoning by spurge are again reported from the south western districts. Salmon were observed to be dying in the River Liffey during the month of July. The cause of the mortality would appear to have arisen from the low state of the river accompanied by a high temperature. Fish are alleged

to have been destroyed by the use of dynamite and hand grenades in the Sligo district, and the northern rivers as usual suffered from pollution by flax water.

The cases of poaching detected diminished and the illegalities were practically all committed by unlicensed persons.

The quantity of breeding fish observed during last winter in the rivers, taken as a whole, seems to have been about the same as in the previous one.

The estimated output of salmon fry from hatcheries in the season of 1921-22 was 4,685,700. Over 3,000,000 salmon fry were turned out from the Lismore Hatchery.

The amount of Licence Duty received by the Boards of Conservators during the year 1921, was £7,612 5s. 0d.

Particulars of the captures at certain of the more important Salmon Fisheries are as follows :—

#### *Waterford District.*

The number of salmon captured at Cahir Park Rod Fishery, on the river Suir, was 31, weighing 452 lbs., and at Neddin's Water, 33, weighing 495 lbs.

#### *Lismore District.*

The take of salmon and grilse at the Blackwater Fishery was 12% above the average for the 25 years ended 1899. Salmon was 25% above and grilse 85% below the average of the nine years ended 1899.

At Dromana Fishery the catch was 706 salmon.

#### *Kenmare District.*

The fishing season at the Blackwater (Co. Kerry) Fishery was curtailed by weather conditions, and the results were 66% below the average for the 25 years ended 1899.

#### *Waterville District.*

The aggregate weight of the 979 salmon taken at Waterville Weir exceeded that in any year since 1841. The number caught was 53% in excess of the average for the 24 years 1875-98. The good results were attributable to the open weather and favourable freshets in the early part of the season.

#### *Killarney District.*

The take of salmon at the Laune Fishery below Killorglin Bridge was 36% under the average for the 24 years ended 1898. The deficiency was due to the absence of grilse and the cessation of fishing in July as a result of lack of railway facilities and obstruction to road traffic between Killorglin and Trillick. The fishing up to the end of May was the best for 52 years.

*Ballina District.*

In the Moy Fishery the number of salmon and trout caught was 31% below the average for the 25 years ended 1899. A great shortage of grilse is reported but Spring fish were above the average.

In respect of the year ended 31st March, 1922 the Department sanctioned grants amounting to £3,351 6s. 10d. to assist in the improvement and protection of inland fisheries. An expenditure, as specified below of £3,216 17s. 11d. was actually made from this source :

	£	s.	d.
Dublin Conservators	40	0	0
Wexford	100	0	0
Waterford	100	0	0
Cork	309	6	0
Skibbereen..	25	0	0
Kenmare	42	0	0
Waterville	32	0	0
Killarney	186	0	0
" " Cromane Patrol	89	10	0
Limerick	1,000	0	0
" (Feale and Cashen Committee)	100	0	0
Galway Conservators	40	0	0
" (L. Mask and Carra Fishery Association)..	150	0	0
Connemara Conservators	30	0	0
Bangor	40	0	0
Ballina	200	0	0
Sligo	100	0	0
Londonderry	80	0	0
Coleraine	120	0	0
Drogheda	40	0	0
L. Sheelin Trout Protection Association.	12	10	0
Camcor and Little Brosna Fishery Association	7	15	0
Derravarragh Anglers' Association	13	16	8
L. Corrib Fisheries Association	25	0	0
Miscellaneous Purposes and Hatcheries	334	0	3
Total	£3,216	17	11

**EEL FISHERIES.**

The Irish eel fisheries during the year 1921 appear to have shown little alteration from their condition in the previous year. Some 519 tons were conveyed over the various Irish railway systems, a slight increase over the quantity for 1920.

During the year 65 coghills, 187 gaps or eyes, 1 trap and 2 long lines were licensed for the capture of eels,



Notes relative to certain of the Districts where the eel fisheries are of importance are appended :—

*Limerick District.*—The eel fishing season was reported to have been one of the best for many years.

*Galway District.*—About 60 persons took part in the eel fisheries which showed some small improvement.

*Ballina District.*—Heavy floods injured the fishery and in consequence the total value of the consignments to English markets was less than in either of the two preceding seasons.

*Coleraine District.*—The eel fisheries, which have been declining for several years, showed in the season of 1921-2 a decrease of almost 50 per cent. on the capture in the previous season. The consignments to English markets realised about £16,000.

*Dundalk District.*—About £330 worth was marketed by the 30 persons engaged, but the fishery generally is declining.

*Drogheda District.*—The exceptionally dry season resulted in an unsatisfactory fishery.

#### POLLEN FISHERIES.

The pollen fisheries of Lough Neagh during the year 1921 were much less productive than in previous years. Their decline is attributed to a decided diminution in the quantity of pollen in the Lough, as well as to a continuance of the activities of the "water cricket" which in recent years has proved immensely destructive to nets.

The prices obtained for the fish, which were again forwarded to English markets, were similar to those secured in 1920.

26 trammel and 150 draft net licences for the taking of pollen were issued during the year and a revenue of £251 was derived from this source.

#### SCIENTIFIC INVESTIGATIONS.

*Marine.*—A number of cruises were made in the area South of Ireland, the observations of sea temperature and salinity from which are being correlated with those of the English and French fishery authorities, and prepared for publication by the International Council for the Study of the Sea. The whole of this large area bounded roughly by lines drawn south from Cork and east from Ushant, in which a mingling of coastal and oceanic water takes place, seems to form a breeding ground in spring and summer for a rich plankton fauna consisting principally of Copepods such as *Calanus* and *Pseudocalanus*, which must make it an important feeding ground for such pelagic fishes as mackerel, herring and pilchards. Irish investigations indicate that its western limit lies in the neighbourhood of the 100-fathom line where the Atlantic drift from the southward impinges on the Con-

tinental mass and floods over the marginal shelf. Purely oceanic forms of life occasionally make their appearance in this area, but even less frequently than might be expected, considering the prevalence of south-westerly winds. The summer gatherings of the larger food-organisms (macroplankton) were on an average about fifteen times as large as those taken between September and April.

The microplankton samples collected during the year have, by the courtesy of the Fishery Board for Scotland, been worked out by Miss Ogilvie, of their scientific staff, to whom we are much indebted.

Shoals of pilchards of  $9\frac{1}{2}$  to 10 inches in length made their appearance off the South Coast, after a long absence. Their presence and that of other animals seems to be correlated with the unusually high temperature noted in these waters throughout the year. Great quantities of small hake were found during the course of experimental trawling carried out by the S.S. *Helga* on the South and West Coasts. The younger stages were feeding chiefly on crustacea and those above 8 inches long on small fish of the cod family.

Samples of herring from the principal Irish fishings were sent to Mr. B. Storrow, of Cullercoats Laboratory, for examination. Mr. Storrow's report shows the special characters of the various fisheries and how they are modified by the greater abundance of herrings of a particular age. Thus the Northern Donegal fishery in January—March, 1922, produced mainly large fish of 4-6 years old, with an 8 year group in excess of the 7 and 9 year groups. In the previous year the same group, then 7 years old, was also more plentiful than the groups above and below it. The bulk of the Ardglass fish were small and from 2 to 3 years old.

*Freshwater.*—The limnological laboratory on Lough Derg was utilised to the fullest extent possible under the conditions prevailing, and with a staff considerably below the authorised strength. It has been established that the distribution of temperature in the lake is different from that of almost all lakes exceeding 30 or 40 feet in depth, in Europe and North America, and that potential fish-food is abundant at greater depths than 40 feet.

The plants and animals of the plankton are reduced to a minimum during the great winter flood. Towards the end of this period, at the end of February, there is a great increase of the floating microscopic plants (phytoplankton), which attain their Spring maximum in March or April. The component species at this time are chiefly Diatoms. Towards the end of March, the animals (chiefly Crustacea and Rotifers), which feed on these plants increase rapidly in numbers, attaining their maximum in June. There is a falling off in the numbers of the animals and plants in the Summer months, and the Autumn maximum of plants begins in September or October, this time consisting largely of Blue-Green Algae such as *Oscillatoria* and *Microcystis*. In October and November the animals attain their autumnal maximum, and persist in large numbers till the winter floods.

It has been found that the River Shannon exerts a profound influence on the plankton of the lake. The plankton of the former is, on the whole, much poorer than that of the latter, but during periods of drought the river plankton tends to resemble that of the lake, whilst during floods the lake

plankton is either killed off, or expelled by the large volume of flood water entering the lake.

The linkage of the chain, Phytoplankton-Zooplankton-Fish, is being studied, and is found to be complicated by various conditions which are not as yet understood.

Comparative studies of the plankton of two other lakes, Lough Atorick and Lough Rea, are being made. Lough Atorick lies on the borders of Co. Clare and Co. Galway, in a basin of Old Red Sandstone and bog land, fed by small streams affording excellent spawning ground for trout, but by no large river, and differs widely in its character from Lough Derg. It contains very numerous small trout. Lough Rea, whilst it resembles Lough Derg in lying on limestone, differs from it in having no rivers flowing into it. It is fed almost entirely by springs, and contains pike, rudd, eels, and perch (recently introduced, and now flourishing).

The zooplankton of these two lakes is abundant throughout the year and does not undergo the violent fluctuations observed in Lough Derg. On the other hand, the phytoplankton is comparatively meagre as compared with Lough Derg, and the explanation of this discrepancy is one of the most interesting of the problems which have arisen.

The breeding periods of all the species of fish inhabiting the lake and the growth and food of the fry throughout the year were investigated. The fry of all species, except salmon and trout, feed almost entirely on the minute Crustacea of the plankton. The stages at which they begin to feed coincide with the spring maximum of the latter.

The plankton constitutes almost the entire food of the pollen throughout its life whilst adult trout and perch also devour it at certain periods of the year. During the winter, when the plankton reaches its minimum, the fish fry and the adult perch disappear from the shallow water and take refuge in the deeps. The perch return at the end of March to spawn in the shallows. Pollen appear to be absent from the northern end of the lake during the winter, and only visit it in small numbers during the summer. This distribution appears to be governed by that of their food, the Crustacea of the plankton.

Experiments have been made as to the best baits for long lines for the capture of eels, and further attempts are contemplated to find the most suitable size of hook for catching marketable eels.

Experiments are also being carried out in order to test the effects on gill nets of using a preparation of creosote and catechu as a preservative. The preparation has the effect of making the nets darker in colour and of reducing the pliability of the thread, and the experiments are designed to test the effects of these changes on the durability and catching capacity of the nets as compared with similar untreated nets.

Salmon scales were collected from three representative Irish rivers, and measurements of the fish from which they were taken were recorded. About 200 samples with sets of measurements were obtained. Scales were also taken from 600 other freshwater fish of various species. These are being systematically examined, in order to determine characteristics, such as age, rate of growth and frequency of spawning, which mark the fish of different localities. Our thanks are due to Mr. Menzies, of the staff of the Fishery Board for Scotland, for assistance in this investigation.



Numbers of adult and young salmon, and some 4,000 other freshwater fish have been marked with silver labels and liberated, with a view to tracing the subsequent history of some of them.

*Publications.*—The only scientific paper issued during the year was "Sponges of the Coasts of Ireland, II. The Tetraxonida (concluded)" by Miss Jane Stephens (Mrs. Scharff), a continuation of her previous work on the same subject. A paper on the Irish Pagurid Crustacea, by the late Lieut. C. M. Selbie, B.Sc., of the National Museum, was printed during the year, but its issue was delayed owing to incorrect binding. It has since been issued.

Many scientific and other reports have been received during the year and this opportunity is taken of thanking those who placed the valuable information contained therein at the disposal of the Department.

We cannot conclude this Report without reference to the untimely loss of our friend and colleague, Mr. E. W. L. Holt, who, after a severe illness, died on the 10th June, while the Report was in preparation. Mr. Holt, whose attainments as a biologist were honoured throughout the world, was first associated with Irish fisheries during the survey of the West Coast fishing grounds carried out by the Royal Dublin Society in 1890-91; he was appointed Scientific Adviser to the Fisheries Branch of the Department in 1900, and Chief Inspector of Fisheries in 1914; and the gifts which he devoted to his work in this Branch were, we believe, universally appreciated by persons interested in the welfare of the fishing industry.

We have the honour to be,

Sir,

Your obedient Servants,

CHARLES GREEN,

*Inspector of Fisheries.*

R. H. LEE,

*Inspector of Fisheries*

Department of Agriculture and Technical  
Instruction for Ireland,  
Fisheries Branch.  
14th December, 1922

# APPENDIX TO THE REPORT

## ON THE

### SEA AND INLAND FISHERIES OF IRELAND

#### FOR THE YEAR 1921.

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## APPENDIX

## STATEMENT of the Total Quantity and Value of the Fish returned as landed

	North Coast. (Erris Head to Torr Head.)				East Coast. (Torr Head to Carnsore Point.)			
	1921.		1920.		1921.		1920.	
	Quan.	Value.	Quan.	Value.	Quan.	Value.	Quan.	Value.
	Cwts.	£	Cwts.	£	Cwts.	£	Cwts.	£
Brill .. .. .	22	45	24	52	98	633	118	756
Soles .. .. .	65	356	81	422	324	1,998	459	3,711
Turbot .. .. .	8	47	8	25	116	637	116	869
<b>Total Prime Fish</b> .. .. .	<b>95</b>	<b>448</b>	<b>113</b>	<b>499</b>	<b>538</b>	<b>3,268</b>	<b>693</b>	<b>5,536</b>
Cod .. .. .	8,294	9,003	7,956	13,512	28,491	68,189	21,411	47,768
Conger Eel .. .. .	12	20	136	192	2,064	2,735	1,221	2,247
Haddock .. .. .	9,495	10,187	7,610	9,177	998	1,859	995	2,737
Hake .. .. .	238	238	568	309	1,352	4,716	2,791	9,817
Herrings .. .. .	37,815	21,258	113,092	76,803	81,625	36,216	91,258	62,566
Ling .. .. .	4	14	11	33	679	855	222	325
Mackerel .. .. .	7,865	4,428	7,892	4,750	4,064	1,339	6,844	1,320
Plaice .. .. .	3,700	8,421	3,400	6,635	10,622	33,993	11,927	38,400
Ray or Skate .. .. .	421	430	1,026	1,926	3,678	3,575	3,086	3,304
Sprats .. .. .	13	8	50	10	—	—	—	—
Whiting .. .. .	4,451	3,039	3,955	2,853	8,440	10,174	6,547	10,066
All other except Shell Fish .. .. .	4,921	4,091	5,083	5,027	8,892	8,767	11,372	13,807
<b>Total of all Fish save Shell Fish</b> .. .. .	<b>77,324</b>	<b>62,785</b>	<b>150,882</b>	<b>190,826</b>	<b>161,343</b>	<b>165,686</b>	<b>157,370</b>	<b>198,583</b>
<b>SHELL FISH :—</b>	<b>No.</b>		<b>No.</b>		<b>No.</b>		<b>No.</b>	
Crabs .. .. .	58,920	504	45,048	472	73,644	639	48,444	451
Lobsters .. .. .	183,908	5,369	64,332	2,869	184,776	8,832	135,288	9,175
Mussels .. .. .	Cwts. 4,020	368	Cwts. 4,376	411	Cwts. 12,892	3,765	Cwts. 10,906	3,444
Oysters .. .. .	No. 316,039	1,890	No. —	—	No. 235,494	931	No. 2,575,000	10,220
Other Shell Fish .. .. .	Cwts. 1,968	603	Cwts. 1,826	710	Cwts. 5,492	2,464	Cwts. 5,422	2,866
<b>Total of Shell Fish</b> .. .. .	<b>—</b>	<b>8,734</b>	<b>—</b>	<b>4,562</b>	<b>—</b>	<b>16,831</b>	<b>—</b>	<b>26,156</b>
<b>Grand Total</b> .. .. .	<b>—</b>	<b>71,519</b>	<b>—</b>	<b>125,388</b>	<b>—</b>	<b>182,517</b>	<b>—</b>	<b>224,739</b>

No. 1.

landed on the Irish Coasts during the Year 1921, as compared with that during 1920.

South Coast. (Carnore Point to Loop Head.)				West Coast. (Loop Head to Erris Head.)				TOTAL.			
1921.		1920.		1921.		1920.		1921.		1920.	
Quan.	Value.	Quan.	Value.	Quan.	Value.	Quan.	Value.	Quan.	Value.	Quan.	Value.
Cwts.	£	Cwts.	£	Cwts.	£	Cwts.	£	Cwts.	£	Cwts.	£
134	459	109	401	38	89	1	4	202	1,226	232	1,213
850	4,226	764	4,357	179	686	93	648	1,418	7,266	1,397	9,138
121	511	128	512	127	405	61	312	372	1,600	311	1,718
1,105	5,186	999	5,270	344	1,180	155	664	2,082	10,092	1,960	12,069
2,227	3,410	4,344	8,383	1,224	1,377	677	896	40,236	72,379	34,388	70,549
622	611	505	637	45	30	14	13	2,743	3,396	1,876	3,089
101	233	7	21	657	1,094	369	737	11,251	13,673	8,981	12,672
112	170	62	132	109	173	38	110	1,811	5,297	3,462	10,368
26,949	12,356	57,329	31,898	11,278	5,143	12,900	5,892	157,667	74,973	274,569	177,159
821	947	567	775	443	442	805	586	1,947	2,258	1,005	1,719
163,577	67,508	240,049	116,428	20,970	8,615	23,004	13,390	186,476	81,390	282,789	141,888
3,715	8,696	4,189	10,246	665	1,455	300	919	18,602	52,565	19,816	56,200
861	655	853	939	292	304	199	228	5,252	4,964	5,164	5,497
334	159	505	330	-	-	-	-	347	167	555	340
1,709	1,814	1,011	1,360	612	825	427	596	15,212	15,852	11,940	15,765
3,707	3,567	2,713	2,467	5,336	6,546	5,623	7,328	22,856	22,971	24,791	28,629
205,840	105,322	313,133	178,886	41,975	27,184	50,511	37,649	476,482	360,977	671,896	535,944
No.		No.		No.		No.		No.		No.	
26,136	291	31,272	413	-	-	288	4	158,700	1,434	125,052	1,350
246,056	8,866	301,440	15,186	168,236	5,492	68,616	2,315	731,016	28,559	569,676	29,645
Cwts.		Cwts.		Cwts.		Cwts.		Cwts.		Cwts.	
1,052	125	1,649	230	-	-	940	94	17,964	4,258	17,871	4,179
No.		No.		No.		No.		No.		No.	
311,057	823	187,874	703	725,340	2,046	857,890	2,892	1,587,930	5,690	3,620,764	13,815
Cwts.		Cwts.		Cwts.		Cwts.		Cwts.		Cwts.	
8,967	5,416	11,390	6,108	5,392	1,775	6,290	2,232	21,819	10,258	24,921	11,816
-	15,521	-	22,640	-	9,313	-	7,547	-	50,199	-	60,905
-	120,843	-	201,526	-	36,497	-	45,196	-	411,176	-	596,849

## APPENDIX NO. I (a).

COMPARISON between the years 1914-1921 inclusive in respect of the Average Prices of the different kinds of Sea Fish landed in Ireland.

Kind of Fish.	AVERAGE PRICE PER CWT.							
	1914.	1915.	1916	1917.	1918.	1919.	1920.	1921.
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
Brill ..	2 8 11	2 9 11	4 2 10	3 19 11	5 5 5	5 10 6	4 16 3	4 3 11
Soles ..	4 7 0	4 16 5	5 10 11	6 8 1	8 7 9	8 3 0	6 10 10	5 2 6
Turbot ..	4 10 5	4 13 11	5 6 3	5 15 2	7 0 4	6 15 2	5 10 6	4 6 0
Cod ..	17 7 1	1 3 6	1 11 9	2 4 8	3 6 6	2 5 6	2 1 0	1 16 3
Conger Eel ..	13 4	16 1	1 2 3	1 9 9	1 16 10	1 14 9	1 12 11	1 4 9
Haddock ..	17 10	1 5 6	1 5 1	2 0 1	3 6 4	2 3 6	1 8 3	1 4 4
Hake ..	1 6 1	1 17 2	2 6 9	3 18 2	4 6 11	3 11 4	2 19 11	2 18 6
Herrings ..	6 9	11 6	15 5	17 8	1 6 11	15 7	12 11	9 6
Ling ..	14 6	15 9	1 1 4	1 8 2	1 15 8	1 17 7	1 1 5	1 3 2
Mackerel ..	6 2	9 11	11 3	16 6	1 1 1	13 6	10 0	8 4
Plaice ..	1 3 8	1 10 1	1 11 11	2 11 2	3 9 11	2 14 10	2 16 9	2 16 6
Ray or Skate ..	9 0	9 7	12 7	18 9	1 9 0	1 3 3	1 1 3	18 11
Sprats ..	4 7	6 8	5 7	12 3	5 4	11 10	12 3	9 7
Whiting ..	16 0	1 3 8	1 5 10	1 14 4	2 9 1	1 15 2	1 6 5	1 0 10
Other kinds (not including Shell Fish).	10 10	14 11	19 7	1 7 7	1 18 11	1 8 5	1 3 1	1 0 1
All, except Shell Fish.	8 1	12 1	15 9	19 4	1 6 1	17 10	15 11	1 2

APPENDIX No. 1 (b).

COMPARISON between the years 1920 and 1921 in respect of the maximum and minimum Average Monthly Prices per cwt. of the different kinds of Sea Fish landed in Ireland.

Kind of Fish.	1920.				1921.			
	Maximum	Month	Minimum	Month	Maximum	Month	Minimum	Month
	£ s. d.		£ s. d.		£ s. d.		£ s. d.	
Brill	6 10 0	Oct.	3 6 4	Aug.	5 10 0	May	3 6 8	Aug.
Soles	10 11 4	Jan.	5 6 6	July	10 13 6	Jan.	3 13 8	April
Turbot	8 8 10	May	4 2 6	"	5 3 4	Oct.	2 17 1	Dec.
Cod	2 9 7	Nov.	1 10 11	Aug.	2 11 3	June	1 8 11	Feb.
Conger Eel	2 17 11	Jan.	18 7	"	1 18 0	"	1 1 1	Sept.
Haddock ...	1 17 7	"	15 5	"	1 14 4	Mar.	11 8	July
Hake	4 11 1	Aug.	1 8 3	July	4 12 1	May	1 7 11	Dec.
Herrings ...	1 1 8	Mar.	9 11	Oct.	1 19 0	Mar.	4 9	"
Ling	2 10 0	Jan.	12 0	Mar.	1 18 2	Jan.	1 0 0	Feb.
Mackerel ...	1 1 7	Mar.	6 3	June	10 10	April	5 10	May
Plaice	3 5 4	Jan.	1 17 10	"	3 4 9	June	2 5 0	Aug.
Ray or Skate	1 10 1	"	13 10	July	1 3 5	July	13 5	Oct.
Sprats	18 2	Feb.	6 0	Aug.	1 0 0	April	9 2	Dec.
Whiting ...	2 1 2	Mar.	15 6	"	1 13 7	Jan.	16 2	July
Other Kinds (not including Shell Fish).	1 8 9	April	1 1 8	Sept.	1 7 7	Aug.	15 8	Feb.

## APPENDIX

## ABSTRACT OF RETURNS of the Numbers of Vessels, Boats,

No.	COASTGUARD DIVISION.	SOLELY ENGAGED											
		MOTOR.											
		FIRST CLASS.						SECOND CLASS.				THIRD CLASS.	
		Over 25 tons.		20-25 tons.		15-20 tons.		10-15 tons, and of 18 ft. keel and upwards.		Under 10 tons and of 18 ft. keel and upwards.		Less than 18 ft. keel.	
		Ves-sels.	Men.	Ves-sels.	Men.	Ves-sels.	Men.	Ves-sels.	Men.	Ves-sels.	Men.	Ves-sels.	Men.
1	Dun Laoghaire ..	4	28	-	-	2	9	8	36	9	38	4	17
2	Wicklow ..	20	150	7	50	4	30	10	35	10	30	-	-
3	Wexford ..	1	4	-	-	1	4	4	15	3	8	-	-
4	Tramore ..	1	6	-	-	-	-	2	8	7	17	-	-
5	Cobh ..	-	-	-	-	-	-	-	-	-	-	-	-
6	Kinsale ..	1	7	-	-	1	7	1	7	1	4	-	-
7	Skibbereen ..	-	-	18	134	13	87	7	43	-	-	-	-
8	Castletownbere ..	-	-	-	-	-	-	-	-	-	-	-	-
9	Valentia ..	-	-	-	-	-	-	1	6	3	16	-	20
10	Dingle ..	-	-	-	-	8	24	1	3	-	-	-	-
11	Kilkee ..	-	-	-	-	-	-	-	-	-	-	-	-
12	Galway ..	4	22	-	-	5	30	3	12	1	4	-	-
13	Keel ..	-	-	-	-	-	-	3	9	1	4	-	-
14	Belmullet ..	-	-	-	-	-	-	-	-	1	3	-	-
15	Sligo ..	-	-	-	-	-	-	-	-	-	-	-	-
16	Killybegs ..	-	-	-	-	-	-	-	-	1	4	-	-
17	Rathmullan ..	-	-	-	-	-	-	-	-	-	-	-	-
18	Moville ..	-	-	-	-	-	-	-	8	26	-	-	-
19	Ballycastle, Antrim ..	-	-	-	-	-	-	3	9	23	65	-	-
20	Carrickfergus ..	-	-	-	-	-	-	-	9	25	-	-	-
21	Donaghadee ..	-	-	3	15	19	95	5	25	17	43	-	-
22	Newcastle ..	9	63	3	21	7	45	-	-	6	24	2	2
23	Dundalk ..	-	-	-	-	-	-	1	5	2	8	-	-
24	Malahide ..	6	30	1	6	4	23	1	5	4	15	-	-
Totals for 1921		46	319	32	226	62	354	50	218	106	334	11	30



No. 2.

and Crews engaged in the Sea Fisheries in 1921.

IN FISHING.																		TOTAL. DIVISIONAL	No.
SAIL.												ROW.							
FIRST CLASS						SECOND CLASS.						THIRD CLASS.	UNCLASSED A.	UNCLASSED B.					
Over 25 tons.	20-25 tons.	15-20 tons.	10-16 tons, and of 18 ft. keel and upwards.	Under 10 tons, and of 18 ft. keel and upwards.	Less than 18 ft. keel.	Open boats of 18 ft. keel & upwards, & canoes of 18 ft. and upwards over all.	Open boats of less than 18ft. keel & canoes of less than 18 ft. over all.												
Ves- sels.	Men.	Ves- sels.	Men.	Ves- sels.	Men.	Ves- sels.	Men.	Ves- sels.	Men.	Ves- sels.	Men.	Ves- sels.	Men.	Ves- sels.	Men.	Ves sels.	Men.		
3	20	1	7	-	-	3	16	29	112	5	16	-	-	1	2	*75	*361	1	
-	-	-	-	-	-	10	28	11	34	-	-	-	-	2	4	74	361	2	
-	-	-	-	2	6	1	3	16	46	-	-	2	3	4	4	34	93	3	
1	4	-	-	-	-	1	4	64	207	-	-	-	-	-	-	76	246	4	
-	-	-	-	4	20	10	35	10	34	-	-	-	-	-	-	24	89	5	
-	-	-	-	2	10	-	-	16	70	-	-	-	-	1	3	23	108	6	
-	-	-	-	-	-	2	14	3	18	4	12	-	-	-	-	45	308	7	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	
-	-	-	-	2	10	-	-	8	35	-	-	5	25	-	-	24	112	9	
11	58	-	-	14	65	2	10	-	-	-	-	37	111	-	-	73	271	10	
-	-	-	-	1	3	2	4	2	6	-	-	10	27	-	-	15	40	11	
10	61	-	-	1	6	1	4	41	154	-	-	21	63	4	8	91	354	12	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	13	13	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3	14	
-	-	-	-	-	-	-	-	9	18	-	-	3	18	-	-	12	36	15	
-	-	-	-	-	-	-	-	29	135	7	28	-	-	1	4	*40	*190	16	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	
-	-	-	-	-	-	-	-	35	191	-	-	-	-	-	-	43	217	18	
-	-	-	-	-	-	-	-	14	39	1	2	-	-	-	-	41	115	19	
-	-	-	-	-	-	2	4	4	8	†1	-	-	-	-	-	16	37	20	
-	-	-	-	-	-	-	-	10	23	1	3	-	-	-	-	55	203	21	
1	7	-	-	-	-	-	-	17	45	8	22	-	-	-	-	63	229	22	
-	-	-	-	-	-	-	-	22	99	-	-	-	-	-	-	25	112	23	
-	-	-	-	-	-	1	5	11	41	3	6	1	2	-	-	32	142	24	
26	140	1	7	26	120	35	127	351	1,315	30	88	79	249	13	25	876	3,640		

\*STEAM VESSELS included in the totals :—Dunlaoghaire Division, 3 vessels, 100-200 tons ; 3 vessels, over 200 tons ; 60 men. Killybegs Division, 2 vessels, 60-100 tons. 19 men.

†Crew in other boats.



## APPENDIX

## ABSTRACT OF RETURNS of the Numbers of Vessels, Boats.

No.	COASTGUARD DIVISION.	PARTIALLY ENGAGED											
		MOTOR.											
		FIRST CLASS.						SECOND CLASS.				THIRD CLASS.	
		Over 25 tons.		20-25 tons.		15-20 tons.		10-15 tons, and of 18 ft. keel and upwards.		Under 10 tons and of 18 ft. keel and upwards.		Less than 18 ft. keel.	
		Ves-sels.	Men.	Ves-sels.	Men.	Ves-sels.	Men.	Ves-sels.	Men.	Ves-sels.	Men.	Ves-sels.	Men.
1	Dun Laoghaire .. ..	-	-	-	-	-	-	1	4	8	24	4	16
2	Wicklow .. ..	-	-	-	-	-	-	-	-	5	17	-	-
3	Wexford .. ..	-	-	-	-	-	-	-	-	4	8	-	-
4	Tramore .. ..	-	-	-	-	-	-	-	-	4	9	1	2
5	Cobh .. ..	-	-	1	7	-	-	-	-	-	-	-	-
6	Kinsale .. ..	-	-	-	-	-	-	-	-	-	-	-	-
7	Skibbereen .. ..	2	16	8	57	8	58	4	27	10	45	7	25
8	Castletownbere .. ..	-	-	-	-	2	12	2	10	2	10	4	15
9	Valentia .. ..	-	-	-	-	-	-	-	-	1	4	1	3
10	Dingle .. ..	-	-	-	-	-	-	-	-	-	-	-	-
11	Kilkee .. ..	-	-	-	-	-	-	-	-	-	-	-	-
12	Galway .. ..	-	-	-	-	-	-	1	3	1	3	-	-
13	Keel .. ..	-	-	-	-	-	-	-	-	-	-	10	40
14	Belmullet .. ..	-	-	-	-	-	-	-	-	1	4	-	-
15	Sligo .. ..	-	-	-	-	-	-	-	-	1	2	-	-
16	Killybegs .. ..	3	27	-	-	4	20	-	-	5	20	-	-
17	Rathmullan .. ..	9	76	-	-	8	49	-	-	9	34	-	-
18	Noville .. ..	-	-	-	-	-	-	-	-	7	20	-	-
19	Ballycastle, Antrim .. ..	-	-	-	-	-	-	-	-	8	25	-	-
20	Carrickfergus .. ..	-	-	-	-	1	6	-	-	12	37	-	-
21	Donaghadee .. ..	2	14	1	1	-	-	-	-	28	86	-	-
22	Newcastle .. ..	-	-	-	-	2	14	-	-	18	72	-	-
23	Dundalk .. ..	-	-	-	-	-	-	-	-	7	24	-	-
24	Malahide .. ..	-	-	-	-	-	-	-	-	1	2	-	-
TOTALS FOR 1921		16	133	10	69	25	164	8	41	132	446	27	101

No. 2.—*continued.*

and Crews engaged in the Sea Fisheries in 1921.

IN FISHING.																		DIVISIONAL TOTAL.	No.
SAIL.												ROW.							
FIRST CLASS.						SECOND CLASS.				THIRD CLASS.		UNCLASSIFIED A.		UNCLASSIFIED B.					
Over 25 tons.		20-25 tons.		15-20 tons.		10-15 tons, and of 18 ft. keel and upwards.		Under 10 tons, and of 15 ft keel and upwards.		Less than 18 ft keel.		Open boats of 18 ft. keel & upwards, & canoes of 18 ft. and upwards over all.		Open boats of less than 18ft. keel & canoes of less than 18 ft. over all.					
Ves- sels.	Men.	Ves- sels.	Men.	Ves- sels.	Men.	Ves- sels.	Men.	Ves- sels.	Men.	Ves- sels.	Men.	Ves- sels.	Men.	Ves- sels.	Men.	Ves sels.	Men.		
-	-	-	-	-	-	-	-	1	4	2	4	60	10	20	32	132	1		
-	-	-	-	-	-	3	12	15	50	2	6	-	-	-	-	25	85	2	
-	-	-	-	-	-	-	-	49	202	-	-	3	4	9	11	65	225	3	
-	-	-	-	-	-	1	3	42	156	15	34	5	13	50	71	118	288	4	
-	-	-	-	1	5	-	-	13	48	18	17	4	14	6	11	43	102	5	
-	-	-	-	-	-	-	-	55	237	8	26	6	14	21	53	90	330	6	
-	-	-	-	12	82	63	311	115	524	46	176	12	38	20	40	307	1,399	7	
-	-	-	-	2	13	32	177	119	695	85	353	17	68	1	2	296	1,355	8	
-	-	-	-	-	-	-	-	8	16	19	94	318	1,377	39	86	386	1,580	9	
-	-	-	-	-	-	-	-	6	12	-	-	189	537	-	-	195	549	10	
-	-	-	-	-	-	1	2	-	-	-	-	64	180	3	6	68	188	11	
-	-	-	-	-	-	42	134	13	34	96	278	161	432	199	480	513	1,364	12	
-	-	-	-	-	-	-	-	-	-	8	40	30	139	12	24	60	243	13	
-	-	-	-	-	-	-	-	2	8	10	21	116	316	28	49	157	398	14	
-	-	-	-	-	-	-	-	16	62	3	9	32	208	8	11	60	292	15	
-	-	-	-	9	54	-	-	206	905	10	34	2	6	16	24	255	1,095	16	
-	-	-	-	6	37	1	3	177	553	7	20	-	-	28	52	*246	*833	17	
-	-	-	-	-	-	-	-	82	343	4	3	-	-	5	8	35	374	18	
-	-	-	-	-	-	-	-	34	95	14	19	2	2	14	18	72	159	19	
-	-	-	-	-	-	-	-	11	27	10	18	4	*6	5	7	43	101	20	
-	-	-	-	-	-	-	-	16	39	20	20	4	12	-	-	71	176	21	
-	-	1	4	1	7	-	-	93	190	19	32	4	8	14	-	142	327	22	
-	-	-	-	-	-	-	-	60	195	14	33	-	-	42	42	123	294	23	
-	-	-	-	-	-	-	-	6	18	5	10	-	-	-	-	12	30	24	
-	-	1	4	31	198	143	642	1,169	4,413	412	1,247	979	3,434	520	1,015	3,474	11,919		

\*ONE STEAM VESSEL, 50-100 tons, with crew of 9 men, included in the totals.

†Crews in other boats.

## APPENDIX

## ABSTRACT OF RETURNS of the Numbers of Vessels, Boats,

No.	COASTGUARD DIVISION.	TOTALS OF SOLELY AND											
		MOTOR.											
		FIRST CLASS.						SECOND CLASS.				THIRD CLASS.	
		Over 25 tons.		20-25 tons.		15-20 tons.		10-15 tons, and of 18 ft. keel and upwards.		Under 10 tons and of 18 ft. keel and upwards.		Less than 18 ft. keel.	
		Ves- sels.	Men.	Ves- sels.	Men.	Ves- sels.	Men.	Ves- sels.	Men.	Ves- sels.	Men.	Ves- sels.	Men.
1	Dun Laoghaire ..	1	28	-	-	2	9	9	40	17	62	8	33
2	Wicklow ..	20	150	7	50	4	30	10	35	15	47	-	-
3	Wexford ..	1	4	-	-	1	4	1	15	7	16	-	-
4	Tramore ..	1	6	-	-	-	-	2	8	11	26	1	2
5	Cobh ..	-	-	1	7	-	-	-	-	-	-	-	-
6	Kinsale ..	1	7	-	-	1	7	1	7	1	4	-	-
7	Skibbereen ..	2	16	26	191	19	145	11	70	10	45	7	25
8	Castletownbere ..	-	-	-	-	2	12	2	10	-	10	4	15
9	Valentia ..	-	-	-	-	-	-	1	6	3	20	6	23
10	Diugle ..	-	-	-	-	8	24	1	3	-	-	-	-
11	Kilkee ..	-	-	-	-	-	-	-	-	-	-	-	-
12	Galway ..	4	22	-	-	-	30	4	15	-	7	-	-
13	Keel ..	-	-	-	-	-	-	3	9	1	4	10	40
14	Belmullet ..	-	-	-	-	-	-	-	-	-	7	-	-
15	Sligo ..	-	-	-	-	-	-	-	-	1	-	-	-
16	Killybegs ..	3	27	-	-	4	25	-	-	6	21	-	-
17	Rathmullan ..	9	76	-	-	8	48	-	-	9	31	-	-
18	Moville ..	-	-	-	-	-	-	-	-	15	46	-	-
19	Ballycastle, Antrim ..	-	-	-	-	-	-	3	9	31	90	-	-
20	Carrickfergus ..	-	-	-	-	1	6	-	-	21	62	-	-
21	Donaghadee ..	2	11	4	20	19	95	-	25	45	129	-	-
22	Newcastle ..	9	63	3	21	9	59	-	-	24	96	2	2
23	Dundalk ..	-	-	-	-	-	-	1	5	9	32	-	-
24	Malahide ..	6	39	1	6	4	23	1	5	5	17	-	-
TOTALS FOR 1921		62	452	42	295	87	518	58	262	238	780	38	140

\*STEAM VESSELS included in the totals :—3 vessels, 50-100 tons ; 5 vessels, 100-200 tons ; 3 vessels over 200 tons. 88 men.

No. 2—*continued.*

and Crews engaged in the Sea Fisheries in 1921.

PARTIALLY ENGAGED IN FISHING.																		GRAND TOTAL OF ALL ENGAGED IN 1921.	No.
SAIL.										ROW.									
FIRST CLASS.						SECOND CLASS.				THIRD CLASS.		UNCLASSED A.		UNCLASSED B.					
Over 25 tons.		20-25 tons.		15-20 tons.		10-15 tons, and of 18 ft. keel and upwards.		Under 10 tons, and of 18 ft. keel and upwards.		Less than 18 ft. keel.		Open boats of 18 ft. keel & upwards, & canoes of 18 ft. and upwards over all.		Open boats of less than 18 ft. keel & canoes of less than 18 ft. over all.					
Ves- sels.	Men.	Ves- sels.	Men.	Ves- sels.	Men.	Ves- sels.	Men.	Ves- sels.	Men.	Ves- sels.	Men.	Ves- sels.	Men.	Ves- sels.	Men.	Ves- sels.	Men.		
3	20	1	7	-	-	3	16	30	116	7	20	6	60	11	22	*107	*493		
-	-	-	-	-	-	13	40	26	84	2	6	-	-	2	4	90	416		
-	-	-	-	2	6	1	3	65	248	-	-	5	7	13	15	99	318		
1	4	-	-	-	-	7	106	363	15	34	5	13	50	71	194	534	4		
-	-	-	-	5	25	10	35	23	82	18	47	4	14	6	11	67	191		
-	-	-	-	-	10	-	-	71	307	8	26	6	14	22	56	113	438		
-	-	-	-	12	82	65	325	118	542	50	188	12	38	20	40	352	1,707		
-	-	-	-	2	13	32	177	149	695	85	353	17	68	1	2	296	1,355		
-	-	-	-	-	10	-	-	16	51	19	91	323	1,402	39	86	410	1,692		
11	38	-	-	14	65	2	10	6	12	-	-	226	648	-	-	268	820		
-	-	-	-	1	3	3	6	2	6	-	-	74	207	3	6	83	228		
10	51	-	-	1	6	43	148	54	188	96	278	182	495	203	488	604	1,718		
-	-	-	-	-	-	-	-	-	-	8	40	30	139	12	24	64	256		
-	-	-	-	-	-	-	-	2	8	10	21	116	316	28	49	158	401		
-	-	-	-	-	-	-	-	25	80	3	9	35	226	8	11	72	328		
-	-	-	-	9	54	-	-	235	1,010	17	62	2	6	17	28	*295	*1,285		
-	-	-	-	6	37	1	3	177	553	7	20	-	-	28	52	*246	*833		
-	-	-	-	-	-	-	-	117	534	1	3	-	-	5	8	138	591		
-	-	-	-	-	-	-	-	48	134	16	21	2	2	14	18	113	274		
-	-	-	-	-	-	4	15	35	11	18	4	6	5	7	59	138	20		
-	-	-	-	-	-	-	-	26	62	21	22	4	12	-	-	156	379		
1	7	1	4	1	-	-	-	110	235	27	54	4	8	-	-	195	556		
-	-	-	-	-	-	-	-	82	294	14	33	-	-	42	42	148	406		
-	-	-	-	-	1	5	17	59	8	16	1	-	-	-	-	44	172		
26	140	11	37	218	178	769	1,620	5,728	442	1,335	1,058	3,683	533	1,040	1,350	15,553			

† Crews in other boats.

## APPENDIX NO. 3.

## SPRING MACKEREL FISHERY 1921.

No.	Stations.	Date when Fishing may be said to have commenced.	Date when Fishing may be said to have ended.	Quantity captured in cwt.	Total Approximate Value.	Number of Barrels cured for Exportation.
					£	
1	Howth	9th July	31st July	912	259	—
2	Knockadoon	July	July	300	40	—
3	Ballycottin	25th April	30th July	472	273	—
4	Dunmore East	15th April	29th June	1,035	522	—
5	Helvick Head	8th April	29th July	822	407	—
6	Kinsale	5th March	31st July	3,924	2,008	—
7	Castletownsend	18th March	26th July	338	117	92
8	Baltimore	7th March	10th June	32,164	12,789	—
9	Schull	2nd May	9th June	371	131	10
10	Castletownbere	6th April	25th June	518	145	120
11	Knightstown	5th July	8th July	260	128	—
12	Cahirciveen	6th April	15th July	308	111	—
13	Ballinagall	5th April	27th July	350	69	—
14	Brandon Creek	23rd March	27th June	307	60	—
15	Waterville	June	July	2,800	1,400	8
16	Liscannor	1st May	31st July	700	240	—
17	Ballyvaughan	2nd June	28th July	303	152	—
18	North Aran	24th May	2nd July	338	77	—
19	Galway	12th May	28th June	310	74	—
20	Roundstone	11th May	10th July	798	229	—
21	Cleggan	3rd May	14th July	538	163	30
22	Blacksod	1st May	31st July	2,000	1,300	—
23	Ballyglass	1st July	31st July	350	269	—
24	Belderrig	4th April	31st July	370	100	—

APPENDIX NO. 4.

AUTUMN MACKEREL FISHERY, 1921-1922.

PARTICULARS OF THE FISHING CARRIED ON AT THE PRINCIPAL STATIONS.

Stations.	Duration of Fishery.	Quantity captured in cwt.	Total Approximate Value.	Number of Barrels Cured for Exportation.
			£	
Ballyglass ..	—	600	425	—
Ross ..	—	2,100	1,590	—
Mullaghnore ..	1st August to 27th October	643	251	—
Buncrana ..	1st Jan., to 28th February	355	170	—
Dunseverick ..	1st August, to 31st December	1,261	757	—
Ardglass ..	1st August to 30th September	435	59	—
Dundalk ..	1st August to 31st August	661	283	—
Howth ..	1st August, to 13th August	1,053	247	—
Kilmore ..	—	350	270	—
Bar of Lough ..	—	250	135	—
Fethard ..	1st August to 6th October	581	575	—
Tramore ..	—	600	200	—
Bonmahon ..	—	250	125	—
Knockadoon ..	—	300	70	—
Kinsale ..	1st August to 28th February	1,419	528	37
Union Hall ..	1st September to 28th February	1,906	794	540
Castletownsend ..	1st August to 28th February	1,101	450	360
Baltimore ..	1st September to 28th February	2,904	1,331	—
Cape Clear ..	—	360	80	90
Schull ..	August to September	825	405	250
Crookhaven ..	1st August to 31st August	2,009	1,430	560
Castletownhere ..	1st August to 28th February	340	84	—
Garnish ..	6th September to 28th December	7,095	3,386	1,045
Ballydonegan ..	September to November	14,168	8,453	4,500
Ballyerovane ..	15th September to 5th November	6,370	2,077	2,070
Lackeen Point ..	—	2,000	—	—
Waterville ..	—	2,000	800	—
Knightstown ..	1st August to 28th February	26,050	11,897	7,845
Calirciveen ..	10th August to 20th December	2,351	1,159	600
Dingle ..	1st August to 31st December	570	164	175
Dunquin ..	21st September to 26th November	2,381	1,182	850
Bealbawn ..	23rd August to 16th December	7,021	2,094	2,300
Ballinrannig ..	7th September to 7th December	4,068	1,130	1,300
Ballinagall ..	August to November	18,800	5,015	6,250
Brandon Creek ..	2nd August to 30th November	6,537	2,101	2,175
Brandon Bay ..	17th August to 5th January	8,014	2,865	3,000
Kilkee ..	1st September to 30th November	2,032	969	30
Farraby ..	August to February	433	296	—
Liscannor ..	—	250	175	—
North Aran ..	5th September to 17th December	4,120	1,337	1,156
Clifden ..	26th October to 16th December	287	76	75
Cleggan ..	6th September to 11th December	5,928	1,864	675
Inniskea Island ..	August to December	1,226	830	—

## APPENDIX NO. 5.

## SUMMER HERRING FISHERY, 1921.

No.	Stations.	Date on which Fishing may be said to have commenced.	Date on which Fishing may be said to have ended.	Quantity captured in cwts.	Value.	Quantity cured for Exportation.
					£ s. d.	
1	Killybegs	11th May	26th October	1,300	921	50
2	Burtonport	16th June	31st October	1,525	891	—
3	Kincasslagh	16th June	5th July	4,513	1,314	557
4	Inishboffin	25th August	31st October	1,370	533	80
5	Downings	12th May	7th July	1,550	790	200
6	Larne	May	September	393	260	—
7	Portavogie	1st May	20th September	8,086	3,613	—
8	Portaferry	28th August	20th October	400	220	—
9	Ardglass	4th May	29th September	18,817	9,661	—
10	Annalong	13th June	21st October	3,008	1,090	—
11	Kilkeel	2nd June	31st October	15,140	6,166	16
12	Omeath	1st October	31st October	300	110	—
13	Clogher Head	June	31st October	422	142	—
14	Howth	26th June	2nd September	27,571	10,914	1,060
15	Dunmore East	3rd May	5th July	5,230	2,979	—
16	Knockadoon	1st July	31st October	900	280	—
17	Cobh	—	—	350	103	—
18	Kinsale	1st May	31st October	2,568	960	—
19	Baltimore	1st May	31st October	1,672	1,418	—
20	Bantry	1st July	31st October	3,216	1,165	—
21	Ballycrovane	1st September	31st October	300	120	—
22	Galway	5th May	28th October	5,418	2,512	—
23	Roundstone	17th September	29th October	482	214	—
24	Cleggan	17th September	31st October	582	265	—
25	Keel	1st August	31st October	1,462	767	—
26	Tully	10th September	31st October	1,200	350	—

APPENDIX NO. 6.

WINTER HERRING FISHERY, 1921-22.

Particulars of the Fishing carried on at the Principal Stations.

No.	Stations.	Date when Fishing may be said to have commenced.	Date on which Fishing may be said to have ended.	Quantity captured in cwt.	Total Approximate Value.	Number of Barrels cured for Exportation.
					£	
1	Kincasslagh	24th January	1st February	323	118	60
2	Buncrana	23rd December	24th March	2,619	2,282	—
3	Omeath	—	—	500	120	—
4	Dundalk	November	15th February	400	100	—
5	Blackrock	—	—	650	93	—
6	Annagassan	1st November	30th December	344	121	—
7	Clogher Head	2nd November	16th December	605	175	—
8	Balbriggan	1st November	16th December	570	350	—
9	Skerries	1st November	16th December	973	457	—
10	Loughskinner	1st November	20th January	1,676	849	—
11	Howth	1st November	15th February	1,322	1,324	—
12	Ringsend	—	—	304	174	—
13	Courtown	9th November	—	764	315	—
14	Rosslare	—	—	450	225	—
15	Ballygeary	—	—	400	183	—
16	Dunmore East	12th October	1st February	1,114	655	—
17	Helvick Head	6th December	15th January	654	365	—
18	Ballycotton	16th November	11th February	585	355	—
19	Kinsale	1st November	30th April	3,301	1,115	—
20	Bantry	1st November	30th April	1,086	466	—
21	Knightsdown	—	—	530	73	—
22	North Aran	14th November	4th February	375	84	—
23	Galway	1st November	15th November	357	341	—



## TRAWLING, 1921.

STATION.	Number of men engaged in the Trawling industry.	Number of boats regularly engaged in Trawling.			Tonnage of motor boats engaged.				Tonnage of sailing boats engaged.				Months in which Fishing was carried on.
		Steam.	Motor.	Sailing.	Not exceeding 10 tons.	Over 10 and not exceeding 15 tons.	Over 15 and not exceeding 30 tons.	Over 30 and not exceeding 10 tons.	Not exceeding 10 tons.	Over 10 and not exceeding 15 tons.	Over 15 and not exceeding 30 tons.	Over 30 and not exceeding 10 tons.	
Howth .. ..	4			1								1	All year.
Ringsend .. ..	120	*6	16	1	8	6	2			1			All year.
Dun Laoghaire .. ..	7		1	1		1					1		All year.
Arklow .. ..	25		12			3		2					April to October.
Courtown .. ..	26				3				4	1			All year.
Wexford .. ..	33		6	12			4		9	3			All year.
Ballycary .. ..	4		1			1							All year.
Kilmore .. ..	4		1		1								August.
Arthurstown .. ..	52		9	15	8	1			11	1			All year.
Dunmore East .. ..	13		1	4		1			4				All year.
Tramore .. ..	7		1	1	1				1				April and May.
Helvick Head .. ..	68		1	16				1	15				All year.
Ardmore .. ..	4			1					1				August and September.
Youghal .. ..	5		1			1							All year.
Knockadoon .. ..	4			1					1	1			September and October.
Ballycotton .. ..	17												All year.
East Ferry .. ..	37		1	10			1		6	4			May to December.
Kinsale .. ..	15		2	1	1	1			1				May to December.
Courtmacsherry .. ..	8												March to December.
Ross Bar .. ..	4			1					1				April to November.
Union Hall .. ..	56		10		4	5	1						All year.
Castletownshend .. ..	38		6			4							All year.
Baltimore .. ..	14			1	1	1				1			January to November.
Schull .. ..	35		6	4	3				4				March to December.
Cape Clear .. ..	20		4			4							May to October.
Castletown .. ..	20		4			4							All year.
Ballycrovane .. ..	9			2							2		March to November.
Dingle .. ..	130		5	†1							10		All year.
R. Shannon .. ..	9			4						3	1		May to July.
Galway .. ..	36		2	9		1		1				9	All year.
<i>Brought forward ..</i>	860		95	118	36	36	18	5	65	17	14	11	

\* All over 100 tons gross tonnage.

† 11 between 40 and 50 tons.

## APPENDIX 7—continued.

## TRAWLING, 1921.

STATION.	Number of men engaged in the Trawling industry.	Number of boats regularly engaged in Trawling.			Tonnage of motor boats engaged.				Tonnage of sailing boats engaged.				Months in which Fishing was carried on.
		Steam.	Motor.	Sailing.	Not exceeding 10 tons.	Over 10 and not exceeding 15 tons.	Over 15 and not exceeding 30 tons.	Over 30 and not exceeding 40 tons.	Not exceeding 10 tons.	Over 10 and not exceeding 15 tons.	Over 15 and not exceeding 30 tons.	Over 30 and not exceeding 10 tons.	
<i>Brought forward</i>	860	*6	95	118	36	36	18	5	65	17	14	11	
North Aran .. ..	32		7	1		1	6				1		All year.
Cleggan .. ..	3			1					1				June to August.
Rossmore .. ..	13		1	2	1					3			May to December.
Blackod Point .. ..	15		2	2					2				April to September.
Ragley .. ..	10			2					5				May to September.
Mullaghmore .. ..	12			4					4				July to September.
Enniscrone .. ..	16			8									May to September.
Ross (Killala) .. ..	4		1	1	1				1				May to August.
Ball Hill .. ..	26			10					10				All year.
Ballyshannon .. ..	10		1	4	1				4				April to September.
Sheephaven .. ..	14		2	2	1		1						August.
Mulroy .. ..	1		1		1								June to September.
Rathmullan .. ..	10			2									April to October.
Buncrana .. ..	18		5	1					1				April to October.
Malin Head .. ..	4		1		1								June, August, September.
Greencastle .. ..	21		2	5	2								April to October.
Moville .. ..	40		10	7	10				7				April to November.
Portrush and Portstewart .. ..	40		16	1	16				1				April to October.
Ballycastle .. ..	24		6		6								May to September.
Cushendall .. ..	6		3		3								All year.
Glenarm .. ..	5		3		3								All year.
Portmuck .. ..	20		6		6								All year.
Carrikerfurgus .. ..	4												April to December.
Belfast .. ..	8		4		4								May to October.
Bangor and Groomsport .. ..	34		18		18								June to September.
Portavogie .. ..	56		14		5	9							January to March: October to December.
Newcastle .. ..	4			1							1		April to October.
Clogher Head .. ..	5		1			1							All year.
Halbriggan .. ..	63		10	3			4		3				Throughout year.
Loughshinney .. ..	7		1				1		1				All year.
Malahide .. ..	4		1	1	1				1				October and November.
<b>Totals</b>	<b>1,393</b>	<b>*6</b>	<b>211</b>	<b>185</b>	<b>125</b>	<b>47</b>	<b>30</b>	<b>9</b>	<b>127</b>	<b>20</b>	<b>16</b>	<b>11</b>	

\* Over 100 tons gross tonnage.

## APPENDIX No. 8

LIST of LICENCES to Plant OYSTER BEDS *in force* at date of this Report and substance of Reports received in respect of year to 30th April, 1922.

No. of Licence.	Alleged present Owner or Lessee, or Agent.	Locality of Beds.	SUBSTANCE OF REPORTS RECEIVED AS TO STATE OF BEDS.
<b>Co. CORK.</b>			
77	John J. Smyth ..	Midleton River	No report received.
145	--- Clarke and Capt. P. W. Newenham	Owenboy River	No report received.
186	Gerald J. Macaura ..	Lough Hyne ..	No report received.
<b>Co. KERRY.</b>			
5	Robert McClure ..	Estuary of Kenmare River	Nothing done to bed.
6	Robert McClure ..	do.	do.
60	R. P. Colomb ..	Kenmare Estuary	Unfit for oysters owing to silt.
84	Frederick M'Kibben	River Shannon	Bed in good condition, 71,331 oysters from Tralee laid down. 68,000 oysters, value £387 18s. 6d., taken off and sold for consumption. Good fall of spat observed.
91	R. P. Colomb ..	Kenmare Bay ..	Unfit for oysters owing to silt.
*92	Do.	do.	do.
125	W. H. McCowen ..	Barrow Harbour	Nothing done to bed for the last few years.
153	Frederick M'Kibben	River Shannon	Bed worked in connection with No. 84.
162	Do.	do.	do.
183	Col. E. S. Heard	Kenmare Bay	Bed derelict.
<b>Co. CLARE.</b>			
179	D. J. Mooney ..	Poulnacloagh Bay.	No report received.
<b>Co. GALWAY.</b>			
15	Patrick Connolly ..	Ardbear Bay ..	Bed in good condition, and has been cleaned. 2,000 oysters taken off. Fairly good fall of spat was observed. Bushes put down to collect spat.
19	Patrick Connolly	Mannin and Ardfeal Bays	Bed in good condition and has been cleaned. 2,000 oysters taken off. Fairly good fall of spat observed. Bushes put down to collect spat.

\* Transferred to present Grantee on 24th October 1895.

APPENDIX NO. 8—continued.

LIST of LICENCES to Plant OYSTER BEDS *in force* at date of this Report and substance of Reports received in respect of year to 30th April, 1922.

No. of Licence.	Alleged present Owner or or Lessee, or Agent.	Locality of Beds.	SUBSTANCE OF REPORTS RECEIVED AS TO STATE OF BEDS.
Co. GALWAY (—contd.)			
33	D. J. Mooney	Galway Bay	No reports received.
149	Do.	do.	
37	Patrick Connolly	Ardbear and Mannin Bays	Bed in good condition and has been cleaned. 1,500 oysters taken off. Good fall of spat. Bushes put down to collect spat.
114	Major A. J. D. Thomson	Killary Bay	Bed in good condition. No oysters sold and none laid down. A good fall of spat observed.
115	J. St. George	Galway Bay	No report received.
171	John Pickles	Ballinakill Harbour.	Bed in excellent condition, cleaned, and raked. No oysters sold. Large fall of spat.
181	The Most Rev. John Healy, D.D., Roman Catholic Archbishop of Tuam.	Streamstown Bay	No report received.
Co. MAYO.			
8	P. C. Garvey	Clew Bay	Bed in good condition. About £25 worth of oysters taken off for consumption. None laid down. Good fall of spat.
141	M. Mulholland	do.	Nothing done to bed. No oysters planted and none taken off for consumption. A very small fall of spat.
*172	Michael Moran	do.	Bed in good condition, and has been cleaned. 2,000 oysters, value £3, were taken off and sold for consumption. 3,000 oysters from Clew Bay laid down. Good fall of spat.
175	Superior of Franciscan Monastery, Achill.	Achill Sound	Nothing done to bed for a long time.
Co. SLIGO.			
7	Connaught Fisheries and Produce Co., Ltd.	Ballisodare Bay	Bed in very good order, but lace weed giving trouble. 302,179 oysters, value £1,816 9s. 2d., were taken off and sold for consumption. 300,000 oysters from Falmouth and 100,000 from west coast of Ireland laid down. No fall of spat.
49	Sir Josslyn Gore Booth, Bart.	Drumcliffe Bay	Nothing done to bed during the year. Bed nearly covered with mud and drifting sand.
59	Mrs. Ogle	Ballisodare Bay	Bed unstocked and nothing done to it.
66	Sir Josslyn Gore Booth, Bart.	Drumcliffe Bay	Same reply as No. 49.
86	Major B. R. Cooper	Ballisodare Bay	Bed in good condition, but nothing done to it.
101	Mrs. Ogle	do.	Bed unstocked and nothing done to it.

\* Licence No. 138, dated 16th August, 1875, to John Kendal, cancelled, and No. 172 granted in lieu thereof.

## APPENDIX No. 8—continued.

LIST of LICENCES to Plant OYSTER BEDS *in force* at date of this Report and substance of Reports received in respect of year to 30th April, 1922.—*con.*

No. of Licence.	Alleged present Owner or Lessee, or Agent.	Locality of Beds.	SUBSTANCE OF REPORTS RECEIVED AS TO STATE OF BEDS.
<b>Co. SLIGO—</b> <i>(contd.).</i>			
102	Connaught Fisheries and Produce Company	Sligo Bay	Same reply as No. 7.
121	Mrs. Ogle	Ballisodare Bay	Bed unstocked and nothing done to it.
135	R. Fraser	Sligo Estuary or Bay.	Bed in good condition. About 3,500 oysters taken off and sold for consumption at 10s. per 120. About 10,000 oysters from Belmullet laid down. Average fall of spat.
163	Connaught Fisheries and Produce Company, Ltd.	Ballisodare Bay	Same reply as No. 7.
169	Alex. Joseph Crichton	do.	Bed unstocked. Nothing done to bed. No fall of spat.
176	Basil Phibbes	do.	No report received.
<b>Co. LOUTH.</b>			
34	Michael E. Hardy	Castlingford Lough.	Bed in good condition. 80,000 oysters, value £400, taken off for consumption. 90,000 Cornish, 800,000 American, 50,000 Dutch, and 500 cases of Portuguese oysters laid down. No spat collected.
65	Do.	do.	Bed in good condition. 100,000 oysters, value £500, taken off for consumption. 60,000 Cornish, 80,000 Oranmore, 800,000 American, 20,000 Dutch, and 500 baskets and 250 cases of Portuguese oysters laid down. No spat collected.

## APPENDIX No. 9.

LIST of LICENCES to Plant MUSSEL BEDS *in force* at date of this Report and substance of Reports received in respect of year to 31st December, 1921.

No. of Licence.	Alleged present Owner or Lessee, or Agent.	Locality of Beds.	SUBSTANCE OF REPORTS RECEIVED AS TO STATE OF BEDS.
<b>Co. MEATH.</b>			
2	John King	River Nanny	Parts of Bed fairly well stocked with mussels. No mussels laid down. 1 ton, value £5, taken off and sold for consumption. A small fall of spat observed.
3	James J. King	do.	Bed badly stocked. About 3 cwt., value £2 2s. 6d., taken off for consumption. Small fall of spat. No mussels laid down.
4	John King	do.	Bed fairly well stocked with mussels 1½ tons, value £18, taken off and sold for consumption. No mussels laid down. A fair fall of spat was observed.

## APPENDIX No. 10.

LIST of LICENCES to Plant PERIWINKLE BEDS *in force* at date of this Report and substance of Reports received in respect of year to 31st December, 1921.

No. of Licence.	Alleged present Owner or Lessee, or Agent.	Locality of Beds.	SUBSTANCE OF REPORTS RECEIVED AS TO STATE OF BEDS.
<b>Co. KERRY.</b>			
2	Col. E. S. Heard	Kenmare Bay	Bed in good condition, but nothing done to it. Some fall of spat observed.

## APPENDIX NO. 11.

## LOANS.

The following tables show the transactions in regard to Loans to Fishermen

TABLE NO. 1.

TABLE showing purposes for which Loans exceeding £10 were applied for and granted during 12 months ended 31st March, 1922.

COUNTY.	PURPOSE FOR WHICH LOANS WERE GRANTED.					
	Purchasing Motor Fishing Boats.	Installing Motor Engines in Fishing Boats.	Purchasing Sailing Boats.	Repairing Boat s or Engines.	Purchasing Winch and Trawling Gear.	Purchasing Fishing Gear.
Antrim ..	1 of £285	-	-	-	-	-
Down ..	-	1 of £100	-	-	-	-
Dublin ..	1 of £730 1 of £150	-	1 of £150	1 of £100	-	-
Louth ..	1 of £65 1 of £105	1 of £13	-	-	-	-
Waterford ..	-	1 of £180 1 of £120	-	-	-	-
Wexford ..	1 of £1,100	-	1 of £26	-	-	1 of £20

TABLE NO. 2.

TABLE showing the Loans applied for and granted during 12 months ended 31st March, 1922.

COUNTY.	Number of Applications.	Number of Applicants.	Amount of Loans applied for.	Number of Loans Granted.	Number of Persons to whom Granted.	Amount of Loans Granted
Antrim ..	1	2	£ 285 0 0	1	2	£ 285
Cork ..	5	5	60 0 0	3	3	26
Down ..	1	6	1,308 0 0	1	2	100
Dublin ..	8	8	2,619 0 0	4	4	1,130
Londonderry ..	2	2	475 0 0	-	-	-
Louth ..	3	3	183 0 0	3	3	183
Waterford ..	2	2	300 0 0	2	2	300
Wexford ..	4	4	1,576 0 0	3	3	1,446
Wicklow ..	3	4	1,110 18 0	-	-	-
Totals,	32	36	7,925 18 0	17	19	3,470

## APPENDIX

(NON-CONGESTED

## TABLE

STATEMENT of the Total Amounts Advanced, the Total Repayments Security in respect of loans which have been issued by the Department-congested districts. This Statement also includes the Return on 31st March, 1900, at foot of unrepaid loans issued by the Board Fisheries between the passing of the Purchase of Land and

COUNTRIES.	Total Number of Loans Advanced to 31st March, 1922	LOANS ADVANCED.				Promissory Notes given as security for Principal and Interest.
		To 31st March, 1921.	During the year ended 31st March, 1922.	Total to 31st March, 1922.		
		£ s. d.	£ s. d.	£ s. d.	£ s. d.	
Antrim ..	109	7,360 15 9	285 0 0	7,645 15 9	8,279 17 9	
Clare ..	62	758 10 0	—	758 10 0	800 17 3	
Cork ..	227	3,679 5 10	66 0 0	2,745 5 10	3,978 6 1	
Donegal ..	33	634 7 10	—	634 7 10	675 16 10	
Down ..	185	21,147 1 8	330 0 0	21,477 1 8	26,522 8 3	
Dublin ..	133	26,782 10 9	1,227 15 9	28,010 6 6	30,500 1 5	
Galway ..	282	5,281 10 0	—	5,281 10 0	5,624 18 6	
Kerry ..	13	193 10 0	—	193 10 0	204 13 0	
Limerick ..	8	337 0 0	—	337 0 0	370 11 4	
Londonderry ..	70	4,610 11 6	40 10 0	4,651 1 6	5,047 6 7	
Louth ..	43	2,506 13 6	183 0 0	2,689 13 6	2,888 11 8	
Mayo ..	185	1,392 13 6	—	1,392 13 6	1,467 5 11	
Meath ..	2	22 10 0	—	22 10 0	23 12 6	
Sligo ..	38	461 14 0	—	461 14 0	489 5 6	
Waterford ..	74	3,265 8 4	318 12 8	3,584 1 0	3,866 10 7	
Wexford ..	79	2,789 7 0	1,446 0 0	4,235 7 0	4,626 17 4	
Wicklow ..	142	44,517 0 9	415 0 0	44,932 0 9	49,972 11 5	
Totals	1,692	128,740 16 5	4,841 18 5	133,582 14 10	145,339 11 11	

NOTE.—A sum amounting to £100 was received from borrowers in the year ended 31st March was advanced, from Borrowers' deposits, during the year. These sums are not shown in above



No. 11—*continued.*

DISTRICTS).

No. 3

on Open Accounts, and the Amounts of Promissory Notes given as ment between 1st April, 1900, and 31st March, 1922, to fishermen in payments made to the Department in respect of amounts outstanding of Public Works on the recommendation of the Inspectors of Irish Congested Districts (Ireland) Act, 1891, and the 31st March, 1900.

Amount of Promissory Notes recoverable and outstanding (including recoverable arrears 31st March, 1900, in respect of Loans issued prior to that date).	Repayments to 31st March, 1922.	Outstanding Promissory Notes not arrived at maturity.	ARREARS.		Irrecoverable.
			No. of Loans.	Amount.	
£ s. d.	£ s. d.	£ s. d.		£ s. d.	£ s. d.
189 2 0	7,162 3 0	826 12 2	—	—	126 2 3
237 11 10	1,030 1 1	—	—	—	8 8 0
1,274 18 6	3,067 17 8	169 7 6	3	15 12 1	—
193 11 3	869 8 1	—	—	—	—
266 11 8	23,030 10 8	2,879 1 9	12	575 1 1	94 18 8
1,470 18 8	23,334 17 8	6,692 16 11	14	1,623 8 9	199 7 3
2,398 7 1	7,769 17 7	—	—	—	253 8 0
109 4 0	604 19 3	—	—	—	8 17 9
235 2 10	605 11 2	—	—	—	—
308 14 11	5,406 5 10	192 15 6	1	14 4 4	—
66 16 7	1,500 1 0	1,126 0 3	2	329 6 11	—
306 5 1	1,773 11 0	—	—	—	—
—	23 12 6	—	—	—	—
92 10 8	581 16 2	—	—	—	—
36 5 9	3,294 3 10	526 11 10	1	19 10 4	—
148 3 3	2,945 16 11	1,752 4 3	1	1 14 10	70 9 9
542 15 10	38,713 8 1	7,131 0 7	33	3,047 6 2	1,055 19 9
8,476 19 11	123,714 4 6	21,306 10 9	69	5,626 4 6	1,817 11 5

1922, as deposit towards cost of a fishing boat and gear required by them; and the sum of £186 14 statement.

# APPENDIX No. 12.

TABLE showing the Total Amount received in the various Fishery Districts from the sale of Licences between the years 1863 and 1921 inclusive.

Appendix to the Report for the year 1921 on

Year.	Amount received for Licence Duty.	Year.	Amount received for Licence Duty.	Year.	Amount received for Licence Duty.
	£ s. d.		£ s. d.		£ s. d.
1863	5,659 7 6	1883	9,728 0 0	1901	9,210 10 0
1864	6,841 5 0	1884	9,976 0 0	1902	9,275 0 0
1865	6,537 6 8	1885	10,746 15 0	1903	9,795 15 0
1866	6,828 16 8	1886	10,652 4 6	1904	10,260 0 0
1867	6,947 0 0	1887	9,802 10 0	1905	10,862 5 0
1868	6,667 0 0	1888	10,625 0 0	1906	11,042 10 0
1869	6,444 8 4	1889	10,020 10 0	1907	10,667 15 0
1870	7,233 3 4	1890	10,005 10 0	1908	10,276 5 0
1871	8,364 5 0	1891	10,550 10 0	1909	10,927 0 0
1872	8,369 5 0	1892	10,509 0 0	1910	11,049 10 0
1873	8,515 5 0	1893	10,509 5 0	1911	10,942 0 0
1874	8,776 0 0	1894	11,138 2 6	1912	11,429 5 0
1875	8,894 5 0	1895	10,448 5 0	1913	10,778 10 0
1876	9,265 15 0	1896	10,817 15 0	1914	10,230 15 0
1877	9,241 15 0	Unaccounted for in 1896		1915	9,318 5 0
1878	9,290 5 0		18 0 0	1916	8,725 0 0
1879	9,250 15 0	1897	10,525 0 0	1917	8,600 0 0
1880	9,055 10 0	1898	10,421 0 0*	1918	9,539 5 0
1881	9,362 0 0	1899	9,821 15 0†	1919	9,837 5 0
1882	9,935 10 0	1900	9,521 15 0	1920	8,845 15 0
				1921	7,612 5 0

\* Includes 32 Eel Licences used in 1897, and not paid for until 1898.  
† Includes 1 Salmon Rod, 2 Bag Nets, and 7 Eel Licences used in 1898, and not paid for until 1899.

# APPENDIX No. 13.

SCHEDULE OF LICENCE DUTIES payable in each District on Engines used for fishing for salmon, &c. at date of this Report.

DISTRICT.	1. Salmon Rods.	2. Cross Lines.	3. Snap Nets.	4. Draft Nets.	5. Drift Nets.	6. Trammel Nets for Pollen.	7. Draft Nets for Pollen.	8. Pole Nets.	9. Bag Nets.	10. Fly Nets.	11. Stake Nets.	12. Head Weirs.	13. Box, Crib, &c.	14. Gap, Eye, &c.	15. Sweepers.	16. Cog-hills.	17. Loop Nets.	18. Long Lines for White Trout.	19. Eel Trap.	20. Eel Lines. 1000 hooks and under.	Over 1000 hooks.
	£ s.	£ s.	£ s.	£ s.	£ s.	£ s.	£ s.	£ s.	£ s.	£ s.	£ s.	£ s.	£ s.	£ s.	£ s.	£ s.	£ s.	£ s.	£ s.	£ s.	£ s.
1. Dublin	1 0	2 0	1 10	3 0	3 0	-	-	2 0						1 0						15	15
2. Wexford	1 0	2 0	1 10	3 0	3 0	-	-	2 0						1 0							
3. Waterford	1 0	2 0	1 10	3 0	3 0	-	-	2 0						1 0							
4. Lismore	1 0	2 0	1 10	3 0	3 0	-	-	2 0						1 0							
5. Cork	1 0	2 0	1 10	3 0	3 0	-	-	2 0						1 0							
6. Skibbereen	1 0	1 0	15	3 0	3 0	-	-	1 0						10							
6.5. Bantry	1 0	1 0	15	3 0	3 0	-	-	1 0						10							
6.5. Kenmare	1 0	1 0	15	3 0	3 0	-	-	1 0						10	3 0	1 10					
7. Killarney	1 0	2 0	1 0	3 0	3 0	15	15	1 0						10							
7. Waterville	1 0	2 0	1 0	3 0	3 0	15	15	1 0						10							
8. Limerick	1 0	1 5	1 10	3 0	3 0	1 10	-	2 0						1 0							
9. Galway	1 0	2 0	1 10	3 0	3 0	-	-	2 0	10 0	30 0	30 0	6 0	10 0	1 0		1 0		7 10	15	15	
9.2. Connemara	1 0	2 0	1 10	3 0	3 0	-	-	2 0						1 0		1 0					
10. Ballinakill	1 0	2 0	1 10	3 0	3 0	-	-	2 0						1 0							
10.5. Bangor	1 0	2 0	1 10	3 0	3 0	-	-	2 0						1 0							
11. Ballina	1 0	2 0	1 10	3 0	3 0	-	-	2 0						1 0							
12. Sligo	1 0	2 0	1 10	3 0	3 0	-	-	2 0						1 0							
13. Ballyshannon	1 0	2 0	1 10	3 0	3 0	1 10	-	2 0						1 0						2 0	3 0
14. Letterkenny	1 0	2 0	1 10	3 0	3 0	-	-	2 0						10		1 0	10	1 0			
15. Londonderry	1 0	2 0	1 10	3 0	3 0	-	-	2 0						1 0							
15.5. Coleraine	1 0	2 0	15	3 0	3 0	1 0	1 10	2 0						1 0		3 0					
16. Ballycastle	1 0	2 0	1 10	3 0	3 0	-	-	2 0						1 0		10					
17. Drogheda	1 0	2 0	1 10	3 0	3 0	-	-	2 0						1 0		1 0	10				
17.5. Dundalk	1 0	2 0	1 10	3 0	3 0	-	-	2 0						1 0		1 0				10	

the Sea and Inland Fisheries of Ireland

## APPENDIX

## SCHEDULE OF LICENCE DUTIES, &amp;c., received by the

DISTRICT.	Number and Description of Licences sold.																			
	1. Salmon Rods.	2. Cross Lines	3. Snap Nets.	4. Draft Nets.	5. Drift Nets.	6. Trammel Nets for Pollen.	7. Pole Nets.	8. Bag Nets.	9. Fly Nets.	10. Stake Nets.	11. Head Weirs.	12. Box, Crib, &c.	13. Gap, Eye, &c.	14. Sweepers.	15. Coghills.	16. Loop Nets.	17. Draft Nets for Pollen.	18. Long Lines for White Trout.	19. Eel Trap.	20. Long Lines for Eels.
1. Dublin ..	161	-	-	10	18	-	13	-	-	-	-	-	-	-	-	-	-	-	-	-
2. Wexford	129	1	-	97	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
3. Waterford	227	-	144	18	90	-	-	1	-	2	-	4	15	-	-	-	-	-	-	-
4. Lismore	129	-	20	14	81	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
5. Cork	119	-	-	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Do. (Bandon)	70	-	-	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6 <sup>1</sup> . Skibberreen	1	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6 <sup>2</sup> . Bantry ..	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6 <sup>3</sup> . Kenmare	15	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7 <sup>1</sup> . Killarney	90	-	-	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7 <sup>2</sup> . Waterville	11	-	-	5	-	-	-	-	-	-	-	8	-	-	-	-	-	-	-	-
8. Limerick	328	3	23	101	45	-	-	-	14	-	-	11	93	-	-	-	-	-	-	-
9 <sup>1</sup> . Galway ..	46	-	-	10	-	-	-	-	-	-	-	5	25	-	-	-	-	-	1	-
9 <sup>2</sup> . Connemara	78	-	-	1	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-
10 <sup>1</sup> . Ballinakill	24	-	-	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10 <sup>2</sup> . Bangor ..	25	-	-	13	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-
11. Ballina ..	27	-	-	15	3	-	-	-	-	-	-	7	22	-	-	-	-	-	-	-
12. Sligo	66	-	-	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13. Ballyshannon	62	1	-	17	6	-	-	-	-	1	-	5	-	-	16	-	-	-	-	-
14. Letterkenny	84	-	-	6	23	-	-	-	-	-	-	2	-	-	-	9	-	-	-	-
15 <sup>1</sup> . Londonderry	414	-	-	53	36	-	2	4	-	3	-	-	-	-	-	-	-	-	-	-
15 <sup>2</sup> . Coleraine	83	-	-	17	8	26	-	1	-	-	-	4	-	-	48	150	-	-	-	-
16. Ballycastle	42	-	-	10	6	-	-	14	-	-	-	-	-	-	1	-	-	-	-	-
17 <sup>1</sup> . Drogheda	137	2	1	87	-	-	-	-	-	-	-	6	16	-	-	-	-	-	-	-
17 <sup>2</sup> . Dundalk	62	-	-	27	-	-	-	-	-	-	1	-	6	-	-	-	-	-	-	1
Total, 1921	2,472	7	188	627	310	26	5	22	-	23	1	48	187	-	65	9	150	-	1	2
Total, 1920	3,094	11	172	625	410	62	5	25	-	32	1	48	291	-	47	13	151	-	1	6

The estimate of the average number of

1. Salmon Rods	..	..	..	1 man.
2. Cross Lines	..	..	..	2 men.
3. Snap Nets	..	..	..	4 do.
4. Draft Nets	..	..	..	6 do.
5. Drift Nets	..	..	..	6 do.

6. Trammel Nets	..	..	..	2 men.
7. Pole Nets	..	..	..	3 do.
8. Bag Nets	..	..	..	4 do.
9. Fly Nets	..	..	..	4 do.
10. Stake Nets	..	..	..	4 do.

No. 14.

BOARDS OF CONSERVATORS for the year 1921.

Amount of Licence Duty.	Percentage on Poor Law Valuation.	Amount received for Fines, Sale of Forfeited Engines, Interest on Bank Account, Refunds, &c.	Amount of Subscriptions received.	Total of Amount received.	Average No. of persons employed.	District.
£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.		
248 0	7 10 0	18 11 3	67 9 0	342 10 3	317	1. Dublin.
422 10	16 0 0	16 14 3	200 3 0	635 7 3	716	2. Wexford.
892 0	56 14 6	6 0 0	100 0 0	1,054 14 6	1,401	3. Waterford.
546 0	193 6 0	6 13 0	239 4 0	985 3 0	714	4. Lismore.
239 0	31 13 0	23 17 8	—	294 10 8	359	5. Cork.
166 0	—	—	—	166 0 0	236	Do. (Bandon).
19 0	—	7 0	25 0 0	44 7 0	37	6 <sup>1</sup> . Skibbereen.
—	—	1 12 0	—	1 12 0	—	6 <sup>2</sup> . Bantry.
24 0	5 5 0	—	56 0 0	83 5 0	33	6 <sup>3</sup> . Kenmare.
171 0	31 18 0	13 18 3	528 7 1	745 3 4	252	7 <sup>1</sup> . Killarney.
94 0	9 0 0	—	48 0 0	151 0 0	81	7 <sup>2</sup> . Waterville.
1,431 3	77 15 6	12 17 8	2,156 6 4	3,678 4 6	1,514	8. Limerick.
158 10	5 19 0	1 6 8	66 6 8	232 2 4	161	9 <sup>1</sup> . Galway.
85 0	121 18 0	—	56 0 0	262 18 0	92	9 <sup>2</sup> . Connemara.
63 0	5 10 0	—	—	68 10 0	102	10 <sup>1</sup> . Ballinakill.
84 0	9 12 0	—	40 0 0	133 12 0	111	10 <sup>2</sup> . Bangor.
173 0	128 16 0	—	200 0 0	601 16 0	179	11. Ballina.
87 0	32 10 0	2 2 6	237 7 6	359 0 0	108	12. Sligo.
229 0	2 0 0	3 15 11	558 9 0	493 4 11	218	13. Ballyshannon.
195 10	10 0 0	3 19 10	—	209 9 10	245	14. Letterkenny.
815 0	21 0 0	42 7 2	160 0 0	1,038 7 2	946	15 <sup>1</sup> . Londonderry.
603 0	54 3 0	20 18 4	120 0 0	793 1 4	631	15 <sup>2</sup> . Coleraine.
230 10	5 0 0	—	—	235 10 0	189	16. Ballycastle.
479 10	20 6 0	9 12 4	106 8 0	615 16 4	702	17 <sup>1</sup> . Drogheda.
155 10	11 2 0	1 9 4	—	168 1 4	240	17 <sup>2</sup> . Dundalk.
7,612 5	854 18 0	186 3 2	4,665 0 7	13,318 6 9	9,607	Total, 1921.
8,845 16	941 16 6	476 6 11	4,729 16 4	14,992 14 9	10,877	Total, 1920.

men employed is made up as follows:—

11. Head Weirs .. .. 1 man.  
 12. Box, Crib, etc. (every 5) .. 2 men.  
 13. Gap, Eye, etc. .. .. 2 do.  
 14. Sweepers .. .. 6 do.  
 15. Coghills .. .. 1 man.

16. Loop or Frame Nets .. .. 1 man.  
 17. Draft Nets for Pollen .. .. 2 men.  
 18. Long Lines .. .. 3 do.  
 19. Eel Trap .. .. 3 do.

## APPENDIX No. 15.

## ABSTRACTS OF ACCOUNTS RECEIVED FROM THE DIFFERENT DISTRICTS FOR THE YEAR, 1921.

## DUBLIN DISTRICT.

	£	s.	d.	£	s.	d.
Balance from previous year				464	11	8
161 Salmon Rod Licences	161	0	0			
10 Draft Net	30	0	0			
18 Drift Net	54	0	0			
2 Pole Net	4	0	0			
Total Licence Duty	—			249	0	0
Rates on Valuations of Fisheries	—			7	10	0
Subscriptions (including £40 0s. from Department of Agriculture and Technical Instruction)	—			67	9	0
Miscellaneous Receipts	—			1	0	0
Interest on Bank Account	—			17	11	3
Total	—			£807	1	11

## The Expenditure was as follows :—

Water Bailiffs	255	17	0			
Expenses of Prosecutions	17	19	0			
Postage and Insurance	11	14	0			
Printing and Stationery	8	18	3			
Travelling and Miscellaneous	90	0	8			
Salaries	45	13	4			
Commission on Sale of Licences	20	10	0			
Total	—			450	12	3
Balance { In Bank	353	11	8			
{ In hands of Clerk	2	18	0			
	—			356	9	8
				£807	1	11

## WEXFORD DISTRICT.

	£	s.	d.	£	s.	d.
Balance from previous year				286	2	9
129 Salmon Rod Licences	129	0	0			
1 Cross Line Licence	2	0	0			
97 Draft Net Licences	291	0	0			
1 Eel Line Licence	10	0				
Total Licence Duty	—			422	10	0

APPENDIX NO. 15.—*continued.*

	£	s.	d.	£	s.	d.
Fines received	—	—	—	7	9	0
Sales of forfeited engines ...	—	—	—	4	0	0
Rates on Valuations of Fisheries ...	—	—	—	16	0	0
Subscriptions (including £100 from Department of Agriculture and Technical Instruction) ...	—	—	—	200	3	0
Interest on Bank Account ...	—	—	—	5	5	3
Total	—	—	—	£941	10	0

The Expenditure was as follows :—

Water Bailiffs	440	10	7			
Expenses of Prosecutions ...	38	17	0			
Postage	3	3	1			
Printing and Stationery	10	3	6			
Travelling and Miscellaneous (in- cluding Clohamon weir and grating at Ardriston)	169	17	6			
Proportion of Penalties to Prose- cutors ...	2	0	0			
Commission on Sale of Licences ...		8	0			
Insurance	7	15	2			
Bank Charges	1	1	0			
Total				673	15	10
Balance { In Bank No. 1 A/c.	326	2	9			
{ Less due No. 2 A/c.	58	8	7			
				267	14	2
				£941	10	0

WATERFORD DISTRICT.

	£	s.	d.	£	s.	d.
Balance from previous year ...				955	8	1
227 Salmon Rod Licences	227	0	0			
144 Snap Net	216	0	0			
18 Draft Net	54	0	0			
90 Drift Net	270	0	0			
1 Bag Net Licence ...	10	0	0			
2 Stake Net Licences	60	0	0			
4 Box or Crib	40	0	0			
15 Gap or Eye (for taking Eels) Licences	15	0	0			
Total Licence Duty ...	—	—	—	892	0	0
Fines received	—	—	—	6	0	0
Rates on Valuations of Fisheries	—	—	—	56	14	6
Grant from Department of Agricul- ture and Technical Instruction ...	—	—	—	100	0	0
Total	—	—	—	£2,010	2	7



## APPENDIX NO. 15.—continued.

	£	s.	d.	£	s.	d.
The Expenditure was as follows.—						
Water Bailiffs	695	17	6			
Expenses of Prosecutions ...	28	19	2			
Postage	6	8	2			
Printing and Stationery	18	3	9			
Travelling and Miscellaneous Expenses	84	18	10			
Salaries	125	0	0			
Commission ...	35	11	9			
Insurance of Employees under Workmen's Compensation Acts ...	19	1	5			
Proportion of Penalties to Prosecutors	4	0	0			
Rewards for killing Seals ...	12	0	0			
Auditing of Accounts	5	5	0			
	<hr/>					
Total	—			1,035	5	7
Balance in Bank	—			974	17	0
				<hr/>		
				£2,010	2	7

## LISMORE DISTRICT.

	£	s.	d.	£	s.	d.
Balance from previous year ...	—			114	12	4½
129 Salmon Rod Licences	129	0	0			
20 Snap Net Licences	30	0	0			
14 Draft Net	42	0	0			
81 Drift Net	243	0	0			
1 Pole Net Licence	2	0	0			
3 Stake Net Licences	90	0	0			
1 Box or Crib Licence	10	0	0			
	<hr/>					
Total Licence Duty ...	—			546	0	0
Fines received	—			6	13	0
Rates on Valuations of Fisheries ...	—			193	6	0
Subsidy to Hatcheries received from Department of Agriculture and Technical Instruction ...	—			150	0	0
Subscriptions	—			89	4	0
	<hr/>					
Total ...	—			£1,099	15	4½

APPENDIX NO. 15—continued.

	£	s.	d.	£	s.	d.
The Expenditure was as follows:—						
Water Bailiffs	382	0	3			
Expenses of Prosecutions	15	0	0			
Postage	4	16	7			
Printing and Stationery ...	18	6	5			
Travelling and Miscellaneous Expenses ...	127	14	8			
Salaries	102	10	0			
Commission on Sale of Licences ...	27	4	6			
Insurance	31	14	3			
Rates, Rent of Boathouse, Bailiffs' Cottages and Hatcheries	44	5	2			
Expenses of Banteer and Mallow Hatchery ...	23	7	0			
Launch and Boat Expenses	96	7	11			
Total				883	6	9
Balance—In Bank	305	11	8			
Due to Clerk	89	3	0½			
				216	8	7½
				£1,099	15	4½

CORK DISTRICT.

	£	s.	d.	£	s.	d.
Balance from previous year				363	6	3
80 Salmon Rod Licences	80	0	0			
40 Draft Net	120	0	0			
Total Licence Duty ...				200	0	0
Rates on Valuations of Fisheries	—			31	13	0
Sale of Hut ...	—			10	0	0
Hire of Launch	—			12	0	0
Law Costs recovered	—			1	17	8
Total				£618	16	11

The Expenditure was as follows:—			
Water Bailiffs	262	8	4
Postage, Printing and Stationery			
Travelling and Miscellaneous Expenses	9	19	4
Balance due to Bank from previous year	77	16	3
Expenses of Prosecutions...	5	0	4

## APPENDIX No. 15—continued.

	£	s.	d.	£	s.	d.
Salaries and Commission ...	219	5	4			
Launch and Boat Expenses ...	91	12	7			
Total ...	—			666	2	2
Balance { Due to Bank ...	47	16	9			
{ Less Amount in hands of Clerk ...	11	6				
				47	5	3
				£618	16	11

## CORK DISTRICT (Bandon Division).

	£	s.	d.	£	s.	d.
Balance from previous year	—			155	1	8
76 Salmon Rod Licences ...	76	0	0			
30 Draft Net „ ...	90	0	0			
Total Licence Duty ...	—			166	0	0
Total ...	—			£321	1	8

The Expenditure was as follows:—

Water Bailiffs ...	129	5	0			
Stationery and Postage ...	2	0	0			
Printing and Advertising ...	2	7	6			
Travelling and Miscellaneous Expenses ...	4	1	2			
Salaries and Bonus... ..	97	0	0			
Commission on Sale of Licences	8	6	0			
Insurance ...	13	0	3			
Total ...				255	19	11
Balance { In Bank ...	61	4	9			
{ In hands of Clerk ...	3	17	0			
				65	1	9
				£321	1	8

APPENDIX NO. 15—*continued.*

SKIBBEREEN DISTRICT.

	£	s.	d.	£	s.	d.
Balance from previous year ...	—	—	—	13	0	4
1 Salmon Rod Licence ...	1	0	0			
6 Draft Net „ ...	18	0	0			
Total Licence Duty ...	—	—	—	19	0	0
Subscription from Department of Agriculture and Technical In- struction ...	—	—	—	25	0	0
Interest on Bank Account ...	—	—	—	7	0	—
Total ...	—	—	—	£57	7	4

The Expenditure was as follows.—

Water Bailiffs ...	28	5	0			
Postage ...	8	3	—			
Stationery ...	2	6	—			
Travelling and Miscellaneous ex- penses ...	11	11	5			
Salaries ...	10	0	0			
Commission on Sale of Licences ...	19	0	—			
Total ...	—	—	—	51	6	2
Balance { In Bank ...	3	7	7			
{ In hands of Clerk ...	2	13	7			
	—	—	—	6	1	2
				£57	7	4

BANTRY DISTRICT.

	£	s.	d.	£	s.	d.
Balance from previous year ...	—	—	—	50	17	2
Interest on Bank Account ...	—	—	—	1	12	0
Total ...	—	—	—	£52	9	2

The Expenditure was as follows.—

Postage ...	5	0	—			
Printing and Stationery ...	13	0	—			
Travelling and Miscellaneous Ex- penses ...	1	1	0			
Salaries ...	10	10	0			
Balance in Bank ...	—	—	—	12	9	0
				40	0	2
				£52	9	2

## APPENDIX NO 15—continued.

## KENMARE DISTRICT.

	£	s.	d.	£	s.	d.
Balance from previous year ...				125	17	7
15 Salmon Rod Licences ...	15	0	0			
3 Draft Net „ ...	9	0	0			
Total Licence Duty ...	—			24	0	0
Rates on Valuations of Fisheries ...	—			3	5	0
Subscriptions (including £42 from the Department of Agriculture and Technical Instruction) ...	—			56	0	0
Total ...	—			£209	2	7
The Expenditure was as follows:—						
Water Bailiffs ...	74	11	11			
Postage ...		5	0			
Printing and Stationery ...	7	8	0			
Travelling and Miscellaneous ...	3	13	8			
Salaries ...	18	0	0			
Total ...	—			103	18	7
Balance in Bank ...	—			105	4	0
				£209	2	7

## WATERVILLE DISTRICT.

	£	s.	d.	£	s.	d.
Balance from previous year ...				131	8	10
49 Salmon Rod Licences ...	49	0	0			
5 Draft Net „ ...	15	0	0			
3 Box or Crib „ ...	30	0	0			
Total Licence Duty ...	—			94	0	0
Rates on Valuations of Fisheries ...	—			9	0	0
Subscriptions (including £32 from the Department of Agriculture and Technical Instruction) ...	—			48	0	0
Total ...	—			£282	8	10
The Expenditure was as follows:—						
Water Bailiffs ...	37	0	0			
Printing and Stationery ...	3	11	0			
Travelling and Miscellaneous Expenses ...	13	6	5			
Salaries ...	65	0	0			
Commission on Sale of Licences ...	3	0	0			
Expenses of Prosecutions ...	9	10	0			
Bank's commission ...	1	1	0			
Total ...	—			132	8	5
Balance in Bank ...	—			150	0	5
				£282	8	10

APPENDIX NO. 15—*continued.*

KILLARNEY DISTRICT.

	£	s.	d.	£	s.	d.
Balance from previous year ...	—	—	—	143	0	1
90 Salmon Rod Licences ...	90	0	0			
27 Draft Net „ ...	81	0	0			
Total Licence Duty ...	—	—	—	171	0	0
Fines received ...	—	—	—	13	11	0
Rates on Valuations of Fisheries ...	—	—	—	31	18	0
Subscriptions (including £146 from the Department of Agriculture and Technical Instruction)...	—	—	—	323	0	0
Grants from Department of Agriculture and Technical Instruction to upkeep of Cromane Patrol ...				205	7	1
Insurance rebate ...				0	7	3
Total ...	—	—	—	£888	3	5

The Expenditure was as follows:—

Water Bailiffs ...	387	13	6			
Expenses of Prosecutions ...	15	14	6			
Postage ...	2	16	5			
Printing and Stationery ...	15	14	3			
Travelling and Miscellaneous Expenses ...	142	19	10			
Salaries ...	112	0	0			
Commission on Sale of Licences ...	10	2	0			
Total ...	—	—	—	687	0	6
Balance in Bank ...	228	12	5			
Less Overdraft on Killarney account ...	27	9	6			
				201	2	11
Total ...	—	—	—	£888	3	5

LIMERICK DISTRICT.

	£	s.	d.	£	s.	d.
326 Salmon Rod Licences ...	326	0	0			
3 Cross Line „ ...	3	15	0			
23 Snap Net „ ...	34	10	0			
101 Draft Net „ ...	303	0	0			
45 Drift Net „ ...	135	0	0			
14 Stake Weir „ ...	420	0	0			
11 Box or Crib „ ...	110	0	0			
99 Eel Gap ...	99	0	0			
Total Licence Duty ...	—	—	—	1,431	5	0



## APPENDIX NO. 15—continued.

	£	s.	d.	£	s.	d.
Fines received	—	—	—	8	17	8
Produce of Sale of old boat	—	—	—	1	10	0
Rates on Valuations of Fisheries ...	—	—	—	77	15	6
Subscriptions (including £2,087 6s. 4d. from the Department of Agriculture and Technical Instruction)	—	—	—	2,156	6	4
Interest on Bank Account	—	—	—	2	10	0
<b>Total</b>	—	—	—	<b>3,678</b>	<b>4</b>	<b>6</b>
Balance from previous year:—						
Due to Bank	2	19	5			
Due to Clerk	134	17	5	137	16	10
The Expenditure was as follows:—						
Water Bailiffs ...	2,287	2	11			
Expenses of Prosecutions ...	40	3	1			
Postage ...	19	9	0			
Printing and Stationery ...	36	10	3			
Travelling and Miscellaneous ...	531	19	3			
Salaries ...	245	5	0			
Interest to Bank ...	16	3	8			
Yearly Bank charge ...	1	1	0			
				3,177	14	2
<b>Total</b> ...	—	—	—	<b>£3,315</b>	<b>11</b>	<b>0</b>
Balance:—						
In Bank ...	331	13	2			
In hands of Clerk ...	31	0	4	362	13	6
				<b>£3,678</b>	<b>4</b>	<b>6</b>

## GALWAY DISTRICT.

	£	s.	d.	£	s.	d.
Balance from previous year:—						
In Bank ...	74	10	10			
Less due to Bank on Petty Cash Account ...	20	6	0			
				54	4	10
46 Salmon Rod Licences ...	46	0	0			
10 Draft Net „ ...	30	0	0			
5 Box or Crib „ ...	50	0	0			
25 Gap, Eye or Basket Licences ...	25	0	0			
1 Eel Trap ...	7	10	0			
<b>Total Licence Duty</b> ...	—	—	—	<b>158</b>	<b>10</b>	<b>0</b>
Produce of Sale of forfeited Engines	—	—	—	1	6	8
Rates on Valuation of Fisheries ...	—	—	—	5	19	0
Subscriptions (including £40 from the Department of Agriculture and Technical Instruction) ...	—	—	—	66	6	8
				<b>£286</b>	<b>7</b>	<b>2</b>

APPENDIX NO. 15.—*continued.*

The Expenditure was as follows:—

Water Bailiffs	199	14	10
Postage	11	2	3
Printing and Stationery	8	5	0
Travelling and Miscellaneous	52	5	2
Proportion of Penalties to Prosecutors	1	6	8
<b>Total</b>	<b>—</b>	<b>272</b>	<b>13 11</b>
Balance { In Bank	85	5	8
{ Due to Bank on Petty			
{ Cash Account	71	12	5
			13 13 3
			<u>£286 7 2</u>

CONNEMARA DISTRICT.

	£	s.	d.	£	s.	d.
Balance from previous year	—	—	—	68	8	8
78 Salmon Rod Licences	78	0	0	—	—	—
1 Draft Net	3	0	0	—	—	—
4 Gap, Eye or Basket Licences	4	0	0	—	—	—
<b>Total Licence Duty</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>85</b>	<b>0</b>	<b>0</b>
Rates on Valuations of Fisheries	—	—	—	121	18	0
Subscriptions (including £30 from the Department of Agriculture and Technical Instruction)	—	—	—	56	0	0
<b>Total</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>£331</b>	<b>6</b>	<b>8</b>

The Expenditure was as follows:—

Water Bailiffs	190	10	0
Postage	3	1	0
Printing and Stationery	12	0	1
Travelling and Miscellaneous	15	12	0
Salaries	30	0	0
Commission on Sale of Licences	4	1	0
<b>Total</b>	<b>—</b>	<b>255</b>	<b>4 1</b>
Balance in Bank	—	76	2 7
		<u>£331</u>	<u>6 8</u>

## APPENDIX NO. 15.—continued.

## BALLYNAKILL DISTRICT.

	£	s.	d.	£	s.	d.
Balance from previous year	—	—	—	80	7	9
24 Salmon Rod Licences	24	0	0			
13 Draft Net	39	0	0			
Total Licence Duty ...	—	—	—	63	0	0
Rates on Valuations of Fisheries	—	—	—	5	10	0
Total	—	—	—	£148	17	9

The Expenditure was as follows:—

Water Bailiffs	47	0	0
Postage	17	5	
Printing and Stationery ...	3	3	
Travelling and Miscellaneous	5	9	4
Salaries	23	0	0
Commission ...	3	16	2
Total	—	—	—
Balance in Bank	—	—	—

80 6 2  
68 11 7

£148 17 9

## BANGOR DISTRICT.

	£	s.	d.	£	s.	d.
Balance from previous year	—	—	—	190	18	5
25 Salmon Rod Licences	25	0	0			
13 Draft Net	39	0	0			
2 Bag Net	20	0	0			
Total Licence Duty ...	—	—	—	84	0	0
Rates on Valuations of Fisheries	—	—	—	9	12	0
Grant from Department of Agriculture and Technical Instruction ...	—	—	—	40	0	0
Total	—	—	—	£324	10	5

The Expenditure was as follows:—

Water Bailiffs	105	13	7
Postage	1	0	0
Travelling and Miscellaneous Expenses	6	10	0
Salaries	30	0	0
Insurance	8	9	5
Total	—	—	—
Balance { In Bank	146	9	9
{ In hands of Clerk	26	7	8

151 13 0

172 17 5

£324 10 5

APPENDIX NO. 15—continued.

BALLINA DISTRICT.

	£	s.	d.	£	s.	d.
Balance from previous year	—	—	—	254	11	11
27 Salmon Rod Licences	27	0	0			
15 Draft Net	45	0	0			
3 Drift Net	9	0	0			
7 Box or Crib	70	0	0			
22 Eel Gap	22	0	0			
Total Licence Duty	—	—	—	173	0	0
Rates on Valuations of Fisheries	—	—	—	128	16	0
Grant from Department of Agriculture and Technical Instruction	—	—	—	200	0	0
Total	—	—	—	£756	7	11

The Expenditure was as follows:—

Water Bailiffs	479	0	0
Travelling and Miscellaneous	3	1	0
Salaries	40	0	0
Premium on Employer's Liability Policy	9	10	0
Total	—	—	—
Balance in Bank	—	—	—
	531	11	0
	224	16	11
	£756	7	11

SLIGO DISTRICT.

	£	s.	d.	£	s.	d.
Balance from previous year	—	—	—	179	0	10
66 Salmon Rod Licences	66	0	0			
7 Draft Net	21	0	0			
Total Licence Duty	—	—	—	87	0	0
Rates on Valuations of Fisheries	—	—	—	32	10	0
Subscriptions (including £100 from the Department of Agriculture Technical Instruction)	—	—	—	237	7	6
Proceeds of Sale of old Boat	—	—	—	2	2	6
Total	—	—	—	£538	0	10

## APPENDIX NO. 15—continued.

					£	s.	d.	£	s.	d.	
The Expenditure was as follows:—											
Water Bailiffs	...	...	...	...	240	15	0				
Postage	...	...	...	...	3	0	0				
Printing and Stationery	...	...	...	...	4	9	6				
Travelling and Miscellaneous Ex-											
penses	...	...	...	...	4	1	0				
Salaries	...	...	...	...	35	0	0				
Total					—			287	5	6	
Balance	{ In Bank				248	17	4	}	250	15	4
	{ In hands of Clerk				1	18	0				
					—			£538 0 10			

## BALLYSHANNON DISTRICT.

					£	s.	d.	£	s.	d.
Balance from previous year ...					—			189	3	0
62 Salmon Rod Licences	...	...	...	...	62	0	0			
1 Cross Line	"	...	...	...	2	0	0			
17 Draft Net	"	...	...	...	51	0	0			
6 Drift Net	"	...	...	...	18	0	0			
1 Stake Net	"	...	...	...	30	0	0			
5 Box or Crib Licences	...	...	...	...	50	0	0			
16 Gap or Eye	"	...	...	...	16	0	0			
Total Licence Duty ...					—			229	0	0
Fines received					—			1	6	8
Rates on Valuations of Fisheries ...					—			2	0	0
Subscriptions					—			258	9	0
Interest					—			2	9	3
Total ...					—			£682	7	11

The Expenditure was as follows:—

Water Bailiffs	...	...	...	...	395	4	0			
Printing and Stationery	...	...	...	...	12	6				
Miscellaneous Expenses	...	...	...	...	19	2				
Bank charges	...	...	...	...	1	1	0			
Salaries	...	...	...	...	2	2	0			
Postage	...	...	...	...	12	2				
Total					—			400	10	10
Balance in Bank					—			281	17	1
					—			£682	7	11

APPENDIX NO. 15—continued.

LETTERKENNY DISTRICT.

			£	s.	d.	£	s.	d.
84 Salmon Rod Licences	...	...	84	0	0			
6 Draft Net	"	...	18	0	0			
23 Drift Net	"	—	69	0	0			
2 Box or Crib	"	...	20	0	0			
9 Loop Net	"	...	4	10	0			
<hr/>								
Total Licence Duty	...	...	—			195	10	0
Rates on Valuations of Fisheries	...	...	—			10	0	0
Rebate on Insurance of Officers	...	...	—			3	19	10
<hr/>								
Total	...	...	—			209	9	10
Due to Bank	...	...	—			417	1	9
<hr/>								
						£620	11	7

Debit Balance at close of 1920

Accounts ... 252 3 5

The Expenditure was as follows.—

Expenditure was as follows:							
Water Bailiffs	...	...	...	...	193	0	0
Postage	...	...	...	...	1	6	4
Printing and Stationery	...	...	...	...	11	3	9
Travelling and Miscellaneous	...	...	...	...	19	6	0
Salaries	...	...	...	...	100	0	0
Insurance	...	...	...	...	18	15	4
Bank Charges on Current Account							
for two years	...	...	...	...	2	2	0
Bank Interest on Overdraft	...	...	...	...	16	4	9
Commission on Sale of Licences	...	...	...	...	6	10	0
					<hr/>		
Total	...	...	...	...	£620 11 7		

LONDONDERRY DISTRICT.

			£	s.	d.	£	s.	d.
Balance from previous year	...	...	—			305	14	7
414 Salmon Rod Licences	...	...	414	0	0			
53 Draft Net	"	...	159	0	0			
36 Drift Net	"	...	108	0	0			
2 Pole Net	"	...	4	0	0			
4 Bag Net	"	...	40	0	0			
3 Stake Net	"	...	90	0	0			
<hr/>								
Total Licence Duty	...	...	—			815	0	0
Fines received	...	...	—			42	7	2
Rates on Valuations of Fisheries	...	...	—			21	0	0
Grant from Department of Agriculture and Technical Instruction	...	...	—			80	0	0
Subscription from Foyle, Bann, and Portrush Fisheries	...	...	—			80	0	0
<hr/>								
Total	...	...	—			£1,344	1	9



## APPENDIX NO. 15—continued.

The Expenditure was as follows:—

	£	s.	d.	£	s.	d.
Water Bailiffs	752	0	0			
Expenses of Prosecutions ...	80	7	4			
Printing and Stationery	9	7	9			
Travelling and Miscellaneous Ex-						
penses	8	19	10			
Salaries	50	0	0			
Commission on Sale of Licences ...	43	15	0			
Total				944	9	11
Balance in Bank				399	11	10
				£1,344	1	9

## COLERAINE DISTRICT.

	£	s.	d.	£	s.	d.
83 Salmon Rod Licences	83	0	0			
14 Draft Net	42	0	0			
8 Drift Net	24	0	0			
26 Trammel Net for Pollen Licences ...	26	0	0			
1 Bag Net Licence	10	0	0			
4 Box or Crib Licences	40	0	0			
48 Coghill	144	0	0			
150 Draft Net for Pollen Licences	225	0	0			
3 Draft Net for Eel Licences	9	0	0			
Total Licence Duty ...				603	0	0
Fines received				18	18	4
Rates on Valuations of Fisheries ...				54	3	0
Rent of Boat House				2	0	0
Grant from Department of Agriculture and Technical Instruction				120	0	0
Balance due Treasurer				108	15	6
Total ...				£906	16	10

The Expenditure was as follows:—

Balance due Treasurer	103	10	6			
Water Bailiffs	462	0	4			
Expenses of Prosecutions ...	57	2	6			
Postage	13	7	4			
Printing and Stationery	20	8	8			
Travelling and Miscellaneous	148	19	2			
Salaries	70	0	0			
Proportion of Penalties to Prosecutors		13	4			
Commission on Sale of Licences ...	30	15	0			
Total				£906	16	10

## APPENDIX NO. 15—continued.

## BALLYCASTLE DISTRICT.

			£	s.	d.	£	s.	d.
42	Salmon Rod Licences	+++	42	0	0			
10	Draft Net	+++	30	0	0			
6	Drift Net	+++	18	0	0			
14	Bag Net	+++	140	0	0			
1	Coghill	+++	10	0	0			
<hr/>								
	Total Licence Duty	+++				230	10	0
	Rates on Valuations of Fisheries	...				5	0	0
	Total	...				<hr/>	<hr/>	<hr/>
						£235	10	0

The Expenditure was as follows:—

Water Bailiffs	+++	198	16	0	
Postage	+++	11	0	0	
Printing and Stationery	+++	6	2	0	
Miscellaneous (including reductions on licences)	+++	7	19	0	
Salaries	...	20	0	0	
Commission on Sale of Licences	...	2	2	0	
<hr/>					
Total	...				£235 10 0

## DUNDALK DISTRICT.

			£	s.	d.	£	s.	d.
	Balance from previous year	...				99	11	11
62	Salmon Rod Licences	+++	62	0	0			
27	Draft Net	+++	81	0	0			
1	Head Weir Licence	+++	6	0	0			
6	Eel Gap or Eye Licences	+++	6	0	0			
1	Long Line for Eels	+++	10	0	0			
<hr/>								
	Total Licence Duty	+++				155	10	0
	Fines received	+++				1	9	4
	Rates on Valuations of Fisheries	...				11	2	0
	Total	...				<hr/>	<hr/>	<hr/>
						£267	13	3

## APPENDIX NO. 15—continued.

The Expenditure was as follows:—					£	s.	d.	£	s.	d.
Water Bailiffs	...	...	...		71	5	0			
Postage	...	...	...	...	2	0	0			
Printing and Stationery	...	...	...		7	0	0			
Travelling and Miscellaneous Ex-										
penses	...	...	...	...	43	3	6			
Salaries	...	...	...	...	94	10	0			
Commission on Sale of Licences	...				9	1	0			
Total ... ..					—			226	19	6
Balance in Bank					—			40	13	9
								£267	13	3

## DROGHEDA DISTRICT.

					£	s.	d.	£	s.	d.
Balance from previous year...	...				—			300	7	0
137 Salmon Rod Licences	...	...			137	0	0			
2 Cross Line	...	...			4	0	0			
1 Snap Net Licence	...	...			1	10	0			
87 Draft Net Licences...	...	...			261	0	0			
6 Box or Crib	...	...			60	0	0			
16 Eel	...	...			16	0	0			
Total Licence Duty ...					—			479	10	0
Fines received					—			9	12	4
Rates on Valuations of Fisheries ...					—			20	6	0
Subscriptions (including £40 from Department of Agriculture and Technical Instruction) ...					—			106	8	0
Total ... ..					—			£916	3	4

The Expenditure was as follows:—

Water Bailiffs	...	...	...	375	19	11
Expenses of Prosecutions ...	...			30	12	6
Postage	...	...	...	3	9	0
Printing and Stationery ...	...			9	19	4
Travelling and Miscellaneous ex-						
penses	...	...	...	95	10	1
Salaries	...	...	...	139	3	9
Commission on Collection of Rates				2	19	1
Commission on Sale of Licences				4	16	0
Proportion of Penalties to Prosecutors				9	2	

APPENDIX NO. 15—continued.

Insurance	£	s.	d.	£	s.	d.
	23	11	3			
Total	—	—	—	686	10	1
Balance in Bank	—	—	—	229	13	3
				£916	3	4

STATEMENT OF RECEIPTS AND EXPENDITURE BY BOARDS OF CONSERVATORS  
IN YEAR 1921.

RECEIPTS.				EXPENDITURE.			
	£	s.	d.		£	s.	d.
Licences ... ..	7,612	5	0	Bailiffs ... ..	8,691	10	8
Fines ... ..	116	4	6	Salaries ... ..	1,683	19	5
Rates ... ..	854	18	0	Travelling and Mis-			
Subscriptions ... ..	1,087	7	2	cellaneous ... ..	1,670	15	11
Grants from Department	3,577	13	5	Proportion of Penalties			
Miscellaneous ... ..	69	18	8	to Prosecutors ...	8	9	2
				Other expenses ...	1,423	3	2
	£13,318	6	9		£13,477	18	4

APPENDIX NO. 16.

STATEMENT OF EXPENDITURE IN CONNECTION WITH THE EMPLOYMENT OF  
EX-SERVICE MEN AS WATER BAILIFFS FROM THE VOTE FOR RECON-  
STRUCTION WORKS.

District	Amount		
	£	s.	d.
Dublin	612	0	0
Wexford ...	597	18	10
Cork	792	6	8
Killarney ...	353	9	1
Limerick ...	1,613	16	3
Galway	3,514	16	10
Connemara	524	16	4
Sligo ...	218	15	6
Londonderry	482	16	0
Coleraine ...	1,331	13	8
Drogheda	654	3	5
Total	£10,696	12	7

## APPENDIX

## SUBSTANCE of REPORTS received from Clerks of

DISTRICT.	What is the general state of the Salmon Fisheries in this District? Are they, as a rule, improving or declining?	
	1921.	1920.
Dublin	Net Fishing improved slightly ; rod fishing not so good.	Fair ; declining.
Wexford	Improving	Improving.
Waterford	Improving	Improving.
Lismore	Good ; improving	Good ; improving.
Cork	Good ; improving	Fair ; improving.
Cork (Bandou)	Fair ; improving	Good ; improving.
Skibbereen	Fair ; improving	Fair ; improving.
Bantry	Declining	Declining.
Kenmare	Fair ; declining	Normal ; declining.
Waterville	Good ; improving	Good ; improving
Killarney	Good ; improving	Good ; spring fishing improving, but grilse failed.
Limerick	Normal ; improving	Normal ; improving.
Galway	Slight improvement	Very bad ; declining.
Connemara	Improving	Normal ; spring salmon improved.
Ballinakill	Improving	Improving
Bangor	Good ; Improving	Declining
Ballina	Spring fishing improving ; summer fishing declining.	On average with past 5 years
Sligo	Fairly good	Fair ; not declining
Ballyshannon	Very fair ; maintaining the average.	Fair ; declining
Letterkenny	About the same	Fair ; no change
Londonderry	Improving	Very bad
Coleraine	Improving	Declining
Ballycastle	Improving	Declining
Dundalk	Satisfactory, improving	Fair ; improving
Drogheda	Improving	No change

No. 17.

CONSERVATORS relative to SALMON FISHERIES.

Has the take of Salmon and Grilse by nets and weirs throughout the District been more, or less, productive in the present year than in the past one?		DISTRICT.
1921.	1920.	
Much more productive	Less productive	Dublin
Salmon more productive; grilse less productive.	More productive	Wexford.
More productive	More productive	Waterford.
More productive	More productive	Lismore.
More productive	Less productive	Cork.
More productive	Salmon more productive; grilse less productive	Cork (Bandon).
More productive	Less productive	Skibbereen.
Less productive.	Less productive	Bantry
Less productive	Less productive	Kenmare.
More productive	Salmon more productive; grilse less productive	Waterville
Salmon more productive grilse less productive.	Salmon by nets about the same; grilse less productive; no weirs in District.	Killarney.
Salmon more productive; grilse less productive.	Salmon considerably more productive; grilse less productive	Limerick.
Slightly more productive	Much less productive	Galway.
No Salmon or grilse taken by nets or weirs.	No nets or weirs used.	Connemara.
Salmon more productive; grilse less productive.	Less productive; no grilse	Ballinakill.
Salmon much more productive; grilse less productive.	Less productive	Bangor.
More productive	Less productive	Ballina.
More productive	More productive	Sligo.
More productive	Less productive	Ballyshannon
No information available	No reliable information available owing to disturbed state of country	Letterkenny
More productive	Considerably less productive	Londonderry
More productive	About the same	Coleraine.
Bag nets and fixed draft nets more productive; trammel nets less productive.	Below average in all fisheries in District except Portbraddon	Ballycastle
Salmon more productive, grilse less productive.	More productive.	Dundalk
Less productive	Slightly less productive	Drogheda.



## APPENDIX

## SUBSTANCE of REPORTS received from Clerks of

DISTRICT.	Has the take of Sea Trout by nets and weirs been more, or less, productive this year than in the past one ?					
	1921.			1920.		
Dublin	More productive	..	..	About the same	..	..
Wexford	Less productive	..	..	About the same	..	..
Waterford	—			No sea trout taken	..	..
Lismore	Cannot ascertain	..	..	Cannot ascertain	..	..
Cork	Less productive	..	..	Very few sea trout taken ..	..	..
Cork (Bandon)	Few taken by Salmon nets ..	..	..	No sea trout taken	..	..
Skibbereen ...	None taken ..	..	..	None taken ..	..	..
Bantry	Less productive	..	..	Less productive	..	..
Kenmare	Less productive	..	..	Less productive	..	..
Waterville	Less productive; owing to dry weather.	..	..	Less productive	..	..
Killarney	—			—		
Limerick	—			—		
Galway	About the same	..	..	About the same	..	..
Connemara	—			—		
Ballinakill	Less productive	..	..	Less productive	..	..
Bangor	Much less productive	..	..	Less productive	..	..
Ballina	About the same	..	..	Less productive	..	..
Sligo ...	None taken ..	..	..	More productive	..	..
Ballyshannon	Less productive	..	..	About the same	..	..
Letterkenny ...	Cannot say ..	..	..	Cannot say ..	..	..
Londonderry...	About the same	..	..	Less productive	..	..
Coleraine	About the same	..	..	About the same	..	..
Ballycastle ...	Less productive	..	..	Less productive	..	..
Dundalk	Less productive	..	..	Less productive	..	..
Drogheda	Less productive	..	..	Less productive	..	..

No. 17—continued.

CONSERVATORS relative to SALMON FISHERIES—continued.

What is your report as to Angling in the District?		District.
1921.	1920.	
Poor owing to drought Fair	Not as good as previous year Fairly good ...	Dublin. Wexford.
Good in early part of season Good from February to April; poor during remainder of season owing to continuous drought.	Successful Good from February to June; poor during remainder of season owing to weather conditions.	Waterford. Lismore.
Very good	Exceptionally good ...	Cork.
Good in March and part of April, bad during remainder of season owing to drought.	Best on record	Cork (Bandon).
Poor No angling Very bad owing to disturbed state of country.	Fair Bad Angling suffered owing to disturbed state of country	Skibbereen. Bantry. Kenneare.
Fair in February; good from March to May, bad from June to end of season.	Salmon fishing good in February, March, April, May, September and October, but not so good in June. White trout fishing good from middle of June to end of season.	Waterville.
Poor owing to dry season Showed a very marked improvement.	Good Marked improvement especially in Rivers Feale, Fergus and Maigue.	Killarney. Limerick.
Fair.	Bad	Galway.
Few Spring anglers. Good in summer season on Costelloe, Screebe and Inver Rivers, but poor on other fisheries.	Spring salmon plentiful but few anglers; grilse and summer fish later and not so plentiful as last year. Sea trout more plentiful and heavier than for some years. Takes were good until nearly the end of the season; anglers were very scarce.	Connemara.
Bad Bad Spring fishing fair, but poor later, owing to drought.	Good Very good Spring fishing promised to be good but rains kept water high and discoloured until 24th June when it cleared and until 3rd July fish were inclined to take. From then to close of season angling very bad.	Ballinakill. Bangor. Ballina.
Fairly good. . .	Fairly good ...	Sligo.
Very good in May, June and September; poor in July and August owing to low water	Very good	Ballyshannon.
Good . . .	Good	Letterkenny.
Not good owing to drought and flax water pollution Very good	Bad Very good to end of July; poor later.	Londonderry. Coleraine.
Good in March and April; poor during remainder of season.	Spring fishing good; summer and autumn fishing poor.	Ballycastle.
Very bad owing to dry season Good at Blackcastle (Navan) and up the Boyne; below average in waters below Navan and in the Blackwater.	Satisfactory ... Very good on upper reaches; poor on lower reaches.	Dundalk. Drogheda.

## APPENDIX

## SUBSTANCE of REPORTS received from Clerks of

DISTRICT.	What was the highest whole-sale price given for Salmon, 1921 ?		What was the highest whole-sale price given for Salmon, 1920 ?		What was the lowest whole-sale price 1921 ?		What was the lowest whole-sale price 1920 ?	
	s.	d.	s.	d.	s.	d.	s.	d.
Dublin	4	6	17	0	1	9	2	4
Wexford	4	0	4	0	1	4	2	3
Waterford	2	8	5	0	2	0	3	0
Lismore	3	3	2	6	1	2	2	4
Cork	—	—	3	4	—	—	2	6
Cork (Bandon)	2	0	3	6	1	2	1	2
Skibbereen	1	9	2	6	1	2	1	6
Bantry	2	0	2	6	1	6	2	0
Kenmare	1	6	3	6	10	—	1	4
Waterville	6	0	18	0	1	2½	2	0
Killarney	4	8	7	5	10	—	—	9
Limerick	4	4	4	6	1	5	2	6
Galway	3	10	4	6	1	3	1	6
Conneemara	—	—	—	—	—	—	—	—
Ballinakill	10	—	1	8	10	—	1	2
Bangor	3	0	3	10	1	4	1	11
Ballina	4	6	5	6	1	4	1	5
Sligo	13	0	15	6	2	6	3	6
Ballyshannon	3	8	4	0	1	4	2	0
Letterkenny	—	—	—	—	—	—	—	—
Londonderry	2	8	4	0	1	5	1	0
Coleraine	3	0	3	6	2	0	2	8
Ballycastle	4	6	5	3	1	4	1	10
Dundalk	3	0	4	6	1	0	2	2
Drogheda	3	6	4	0	1	6	2	6

No. 17—*continued.*

CONSERVATORS relative to SALMON FISHERIES.—*continued.*

Has any peculiarity been observed in the date on which fish have appeared in the rivers this season?						DISTRICT.
1921.			1920.			
Fish ran early.	..	..	..	Fish appeared about the same time as last year.	Dublin.	
No.	..	..	..	Fish appeared somewhat earlier	Wexford.	
No.	..	..	..	Fish appeared somewhat earlier	Waterford.	
No.	..	..	..	No.	Lismore.	
No.	..	..	..	A few salmon appeared slightly earlier	Cork.	
No.	..	..	..	Somewhat earlier	Cork (Bandon)	
No.	..	..	..	Nearly all in May and June	Skibbereen.	
No.	..	..	..	No.	Bantry.	
Fish ran very early	..	..	..	Spring fish ran earlier; grilse very late.	Kenmare.	
No.	..	..	..	No.	Waterville.	
No.	..	..	..	No.	Killarney.	
A large run of salmon noticed in December	..	..	..	A large run of salmon was noticeable in December.	Limerick.	
No.	..	..	..	No.	Galway.	
Summer fish late in ascending rivers owing to drought	..	..	..	Spring salmon ran earlier and grilse later than usual.	Connemara.	
No.	..	..	..	Earlier than usual since February	Ballinakill.	
No.	..	..	..	No.	Bangor.	
No.	..	..	..	No.	Ballina.	
No.	..	..	..	No.	Sligo.	
No.	..	..	..	Later than usual	Ballyshannon.	
No.	..	..	..	No	Letterkenny.	
No.	..	..	..	Grilse much later than usual	Londonderry.	
No.	..	..	..	No.	Coleraine.	
No.	..	..	..	Smolts continued in the Bush River until late in the season; spring fish later than usual.	Ballycastle.	
No.	..	..	..	No.	Dundalk.	
No	..	..	..	Larger fish than usual during May and June.	Drogheda.	

## APPENDIX

## SUBSTANCE of REPORTS received from Clerks of

DISTRICT.	Between what dates did the principal migration of Smolts take place? Was it larger or smaller than usual?	
	1921.	1920.
Dublin	April and May. Smaller ..	April and May. Slightly larger ...
Wexford	March, April and May. Larger ..	April and May. Larger
Waterford	April and May. Larger	Middle of April and middle of May. Average.
Lismore	15th March to 20th May. Larger and more numerous.	17th March to 20th May. Larger ...
Cork	18th April and 10th May. ...	Difficult to ascertain; believed to be good.
Cork (Bandon)	10th March to 10th April. About the same.	8th March to 10th April. About the same.
Skibbereen	1st to 14th April. Larger..	1st to 14th April. Average. ...
Bantry	May. About the same	May. Smaller ...
Kenmare	12th April and 18th May. Smaller..	18th April to 20th May. Smaller ...
Waterville	15th April to 15th May. About the same.	In April. Average.
Killarney	Between the beginning of March and first week in May. About the same.	Beginning of March to first week in May. Average.
Limerick	March, April and May, and September, October and November. Average.	March and May, and also in September and November. Average.
Galway	May and June. About the same.	April and May. Smaller. ...
Connemara	April and May. Salmon smolts about average. Sea trout smolts larger	April and May. Average ...
Ballinakill	Cannot say	Cannot say. ...
Bangor	End of April and beginning of May. About the same	15th April to 25th May. Larger
Ballina	End of April and beginning of May. Larger.	From March to end of May. Larger
Sligo	May, June and July. About the same	May, June and July. Larger
Ballyshannon	Middle of April and end of May.	1st April to 10th May. Average
Letterkenny	Middle of May.	Beginning of May ...
Londonderry...	15th March to 15th June. Average.	15th March to 15th June ...
Coleraine	12th April and 1st June. Much larger.	12th April to 30th June. Much larger
Ballycastle	Last week in April to 10th June. Fair average.	24th April to middle of June. Smaller.
Dundalk	Between 1st April and 31st May. Larger.	1st to 31st May. Average ...
Drogheda	April and May. Smaller ..	1st May and 30th June. Average ...

No. 17—*continued.*

CONSERVATORS relative to SALMON FISHERIES—*continued.*

Has there been observed more than one migration of Smolts to the sea during the season? If so, state when these migrations took place.		DISTRICT.
1921.	1920.	
Yes. There is always a small migration in the autumn dependent on the amount of water.	There is always a small migration in autumn dependent on the amount of water.	Dublin.
No. . . . .	No. . . . .	Wexford.
No. . . . .	No. . . . .	Waterford.
No. . . . .	No. . . . .	Lismore.
Yes. 18th and 23rd April; 6th and 14th May.	Yes. A small migration was observed in October.	Cork.
No. . . . .	No. . . . .	Cork (Bandon).
No. . . . .	No. . . . .	Skibbereen.
No. . . . .	No. . . . .	Bantry.
No. . . . .	No. . . . .	Kenmare.
No. . . . .	No. . . . .	Waterville.
No. . . . .	No. . . . .	Killarney.
Yes. There is an autumn run in September, October, and November.	Yes. In March, April and May. Also in September, October and November.	Limerick.
No. . . . .	No. . . . .	Galway.
Yes; A few in September . . . .	No. . . . .	Connemara.
Cannot say . . . . .	Cannot say . . . . .	Ballinakill.
Yes, two, on 26th April and 4th May	Two runs observed: 20th and 24th April.	Bangor.
No. . . . .	No. . . . .	Ballina.
Yes. In April, May and August . .	Yes. . . . .	Sligo.
No. . . . .	No. . . . .	Ballyshannon.
No. . . . .	No information available . . . .	Letterkenny.
No. . . . .	No. . . . .	Londonderry.
Yes; with each flood from 12th April to beginning of June.	Smolts continued to run during each "fresh" 12th April to 30th June.	Coleraine.
Yes. In July and August in River Bush	Yes. During July and August in River Bush.	Ballycastle.
No. . . . .	No. . . . .	Dundalk.
A certain number went down in March.	No. . . . .	Drogheda.



## APPENDIX

## SUBSTANCE of REPORTS received from Clerks of

District.	In your opinion was the weather favourable or (1.) To Netting.	
	1921.	1920.
Dublin.	Favourable	Unfavourable
Wexford.	Favourable	Favourable
Waterford.	Favourable	Favourable
Lismore.	Favourable	Favourable
Cork.	Favourable	Favourable
Cork (Bandou)	Favourable except in upper waters.	Favourable
Skibbereen.	Favourable except from 15th July to 7th August	Unfavourable except in May
Bantry.	Favourable	Favourable
Kenmare.	Unfavourable	Unfavourable
Waterville	Unfavourable	Favourable
Killarney	Favourable	Unfavourable during March owing to floods.
Limerick	Favourable	Favourable
Galway	Favourable early in season	Unfavourable
Counnemara	No netting	No netting done
Ballisakill	Favourable	Unfavourable
Bangor	Most favourable	Favourable
Ballina	Unfavourable	Unfavourable
Sligo	Favourable	Favourable
Ballyshannon	Favourable	Unfavourable
Letterkenny	Favourable	Unfavourable
Londonderry	Favourable	Unfavourable
Coleraine	Favourable in tidal waters of Bann but unfavourable in fresh water portion.	Favourable
Ballycastle	Very favourable	Fairly Favourable
Dundalk	Favourable	Favourable
Drogheda	Favourable	Favourable

No. 17—*continued.*

CONSERVATORS relative to SALMON FISHERIES—*continued.*

unfavourable in each month of the open season ? (II.) To Angling.		District.
1921.	1920.	
Unfavourable owing to low state of water	Unfavourable .. .. .	Dublin.
Unfavourable .. .. .	Favourable .. .. .	Wexford.
Favourable .. .. .	Favourable .. .. .	Waterford.
Unfavourable from May to September.	Unfavourable during part of June, July, August and September.	Lismore
Favourable .. .. .	Favourable .. .. .	Cork.
Unfavourable except in March ..	Favourable .. .. .	Cork (Bandon).
Favourable from 1st to 20th May and from 20th July to 7th August	Favourable, except in September and early October.	Skibbereen.
Unfavourable .. .. .	Favourable .. .. .	Bantry.
Unfavourable .. .. .	Favourable .. .. .	Keamore.
Favourable to May ; unfavourable during rest of season	Favourable .. .. .	Waterville.
Unfavourable .. .. .	Favourable .. .. .	Killarney
Unfavourable owing to lowness of water	Unfavourable owing to low water. ..	Limerick.
Favourable early in season ..	Unfavourable .. .. .	Galway
Unfavourable in May, June and July	Unfavourable in February, March, August and September ; favourable in April and May ; indifferent in June and July.	Connemara.
Unfavourable .. .. .	Favourable .. .. .	Ballinakill.
Unfavourable .. .. .	Favourable .. .. .	Bangor.
Unfavourable .. .. .	Unfavourable except from end of June to middle of July.	Ballin
Favourable .. .. .	Favourable .. .. .	Sligo.
Unfavourable .. .. .	Favourable .. .. .	Ballyshannon.
Favourable .. .. .	Favourable .. .. .	Letterkenny.
Unfavourable .. .. .	Favourable .. .. .	Londonderry
Favourable .. .. .	Favourable .. .. .	Coleraine.
Fairly good from February to April ; unfavourable during remainder of season owing to drought.	February and first half of March unfavourable ; last half of March, April and May favourable ; rest of season unfavourable.	Ballycastle.
Unfavourable : season too dry ..	Favourable .. .. .	Dundalk.
Favourable until middle of April ..	Favourable in upper reaches ; unfavourable in lower reaches.	Drogheda.

## APPENDIX

## SUBSTANCE OF REPORTS received from Clerks of

DISTRICT.	At what period of the year was Grilse first taken.									
	1921					1920				
Dublin	June and July					June				
Wexford	Middle of June					Middle of June				
Waterford	June					First week in June				
Lismore	May 20th					May 12th				
Cork	June					June 17th				
Cork (Bandon)	First week in June					First week in June				
Skibbereen	Last week in June					August				
Bantry	July					June				
Kenmare	June 20th					June 28th				
Waterville	June					June				
Killarney	June 1st					June 3rd				
Limerick	Middle of May					Middle of May				
Galway	May 12th					May 31st				
Counemara	June					June 18th				
Ballinakill	June 15th					July				
Bangor	May					May				
Ballina	May					May				
Sligo	May and June					May				
Ballyshannon	June					June 15th				
Letterkenny	End of May					June				
Londonderry	May 17th					June 11th				
Coleraine	Beginning of June					Beginning of June				
Ballycastle	May 28th					June 1st				
Dundalk	July					July				
Drogheda	Late in June					June				

No 17—continued.

CONSERVATORS relative to SALMON FISHERIES—continued.

During what months was the greatest quantity observed or taken ?										DISTRICT.
1921.					1920.					
July ... ..					July .. .. .					Dublin.
July .. .. .					July .. .. .					Wexford.
May .. .. .					July .. .. .					Waterford.
June and July .. ..					June and July .. ..					Lismore
July ... ..					July .. .. .					Cork
June and July .. ..					July ... ..					Cork (Bandon).
July .. .. .					August, but very few seen or taken ..					Skibbereen
July .. .. .					July .. .. .					Bantry.
July .. .. .					July .. .. .					Kenmare
June ... ..					July and August .. ..					Waterville
June ... ..					June .. .. .					Killarney
June ... ..					June .. .. .					Limerick
June ... ..					June .. .. .					Galway
June and July ... ..					July .. .. .					Connemara
Last fortnight in June and fortnight in July	1st				July .. .. .					Ballinakill.
Very few at any time					June and July .. ..					Bangor
July ... ..					End of June .. ..					Ballina
June and July ... ..					June and July .. ..					Sligo
June .. .. .					June .. .. .					Ballyshannon
May and June .. ..					June .. .. .					Letterkenny
July .. .. .					July .. .. .					Londonderry
June and July .. ..					July .. .. .					Coleraine
June .. .. .					Last week in June to first week of July					Ballycastle
July ... ..					July .. .. .					Dundalk
July ... ..					June .. .. .					Drogheda

## APPENDIX

## SUBSTANCE of REPORTS received from Clerks of

DISTRICT.	During what months were many Salmon taken with Grilse and were these Salmon on an average heavier or lighter than at other periods?	
	1921.	1920.
Dublin	June and July. Lighter	June and July. Lighter
Wexford	July. Heavier	June. Heavier
Waterford	May and June. Average weight	June and July. Heavier
Lismore	June and July. Heavier	June and July. Heavier
Cork	June. Heavier	June and July. Average weight
Cork (Bandon)	June and July. About the same	June and July. Average weight
Skibbereen	July. Heavier	Salmon. Average weight; hardly any grilse taken.
Bantry	Cannot be ascertained	May and June
Kenmare	July. Lighter	July. Lighter
Waterville	June and July. Lighter	June to October. Lighter
Killarney	June. Heavier	June. Lighter
Limerick	May. Heavier	May. Lighter
Galway	May and June. About the same	—
Connemara	July	—
Ballinakill	First two weeks in July. Lighter	—
Bangor	May, June and July. Lighter	March to April. Lighter
Ballina	June. About the same	June. Average weight
Sligo	May and June. Heavier.	May and June. Heavier
Ballyshannon	June. Heavier	June. Heavier
Letterkenny	Cannot say	Cannot say
Londonderry	June, July and August. About the same.	June, July and August. About the same.
Coleraine	June and July. About the same	June and July. About the same
Ballycastle	July and August. Heavier	July and August. Slightly heavier
Dundalk	July. Lighter	July. Lighter
Drogheda	June and July. Heavier	—

NO. 17—*continued.*

CONSERVATORS relative to SALMON FISHERIES—*continued.*

In what months were the greatest quantities of Salmon (not Grilse) taken ?		DISTRICT.
1921.	1920.	
June and July by nets ; February to April by rods .. ..	June and July, by nets · February to April by rods	Dublin.
April and May .. ..	April and May .. ..	Wexford.
May .. ..	February and March .. ..	Waterford
February, March, April and part of May .. ..	March to June .. ..	Lismore.
April to June .. ..	March to July .. ..	Cork.
April and May .. ..	April and May .. ..	Cork (Bandon)
May .. ..	June and early July .. ..	Skibbereen
Cannot be ascertained .. ..	May and June .. ..	Bantry
June .. ..	June .. ..	Kenmare
January to May .. ..	January to June .. ..	Waterville
April .. ..	January to April .. ..	Killarney
April .. ..	April .. ..	Limerick.
March, April and May .. ..	—	Galway
July and August .. ..	April and May .. ..	Counemara
Middle of May .. ..	June .. ..	Ballinakill
July .. ..	April .. ..	Bangor.
May .. ..	May .. ..	Ballina
In January, February and March at Sligo ; in April, June and July at Ballysodare .. ..	January, February and March .. ..	Sligo
May and first two weeks in June .. ..	June .. ..	Ballyshannon
June .. ..	June .. ..	Letterkenny.
June, July and August .. ..	June, July and August .. ..	Londouderry
June .. ..	May and June .. ..	Coleraine.
April and May .. ..	April and May .. ..	Ballycastle.
February to May .. ..	February, March, April and May .. ..	Dundalk
1st March to 15th April and 1st May to middle of June .. ..	April and May .. ..	Drogheda



## APPENDIX

## SUBSTANCE of REPORTS received from Clerks of

DISTRICT.	Can it be ascertained what proportion the capture of grilse bore to the capture of Salmon?									
	1921.					1920.				
Dublin	1 to 6	..	..	..	..	1 to 6	..	..	..	..
Wexford	No.	..	..	..	..	No.	..	..	..	..
Waterford	No.	..	..	..	..	No.	..	..	..	..
Lismore	No.	..	..	..	..	No.	..	..	..	..
Cork	No.	..	..	..	..	No.	Grilse declining			
Cork (Bandon)	1 to 10	..	..	..	..	1 to 30.	Bad grilse season			
Skibbereen	1 to 2	..	..	..	..	No.	Bad grilse season			
Bantry	No.	..	..	..	..	4 to 1	..	..	..	..
Kenmare	1 to 3	..	..	..	..	1 to 3	..	..	..	..
Waterville	1 to 3	..	..	..	..	1 to 3	..	..	..	..
Killarney	No.	..	..	..	..	Salmon in excess				
Limerick	No.	..	..	..	..	No.	..	..	..	..
Galway	No.	..	..	..	..					
Connemara	About 8 to 1	..	..	..	..	6 to 1	..	..	..	..
Ballinakill	About 1 to 20	..	..	..	..	No grilse	..	..	..	..
Bangor	1 to 80	..	..	..	..	1 to 3	..	..	..	..
Ballina	2 to 1	..	..	..	..	Capture of grilse exceeded that of salmon.				
Sligo	6 to 4	..	..	..	..	6 to 4	..	..	..	..
Ballyshannon	1 to 2	..	..	..	..	1 to 2	..	..	..	..
Letterkenny	No.	..	..	..	..	No.	..	..	..	..
Londonderry	No.	..	..	..	..	No.	..	..	..	..
Coleraine	2 to 3	..	..	..	..	2 to 1	..	..	..	..
Ballycastle	11 to 4 in bag and draft nets; 10 or 11 to 1 in trammel nets.					8 or 9 to 3 in bag nets; 10 to 1 in drift nets.				
Dundalk	No.	..	..	..	..	No.	..	..	..	..
Drogheda	No.	..	..	..	..	No.	..	..	..	..

NO. 17—*continued.*

CONSERVATORS relative to SALMON FISHERIES—*continued.*

Is there any increase in the average size of Spring Salmon? Give average weight of Salmon and Grilse in the season of this year as far as practicable.		DISTRICT.
1921.	1920.	
No; Salmon, 12 lbs.; grilse, 6 lbs.	Salmon, 12 lbs.; Grilse, 6 lbs.	Dublin.
No; Salmon, 10 lbs. Grilse 5 lbs..	Salmon, 11 lbs.; Grilse, 5 lbs.	Wexford.
Salmon, 16 lbs.; Grilse, 5 lbs.	Salmon, 18 lbs.; Grilse, 5 lbs.	Waterford.
Yes; Salmon, 10 to 30 lbs.; Grilse 3 to 7 lbs.	Salmon, 10 to 30 lbs.; Grilse, 4 to 7 lbs.	Lismore.
—	Salmon, 11 lbs.; Grilse, 3 lbs.	Cork.
Salmon, 12 lbs.; Grilse, 5 lbs	Salmon, 12 lbs.; Grilse, 5 lbs.	Cork (Bandon).
Salmon, 11 lbs.; Grilse 5 lbs.	Salmon, 12 lbs.; Grilse, 5 lbs.	Skibbereen.
No.	No.	Bantry
Salmon, 12 lbs.; Grilse, 2 lbs.	Salmon, 10 lbs.; Grilse, 2 lbs.	Kenmare
Salmon, 12 lbs.; Grilse, 5½ lbs.	Salmon, 11 lbs.; Grilse, 5 lbs.	Waterville
Salmon, 10½ lbs.; Grilse, 5 lbs.	Salmon, 7 lbs.; Grilse, 4 lbs.	Killarney.
Salmon, 20 lbs.; Grilse, 4 lbs.	Salmon, 13½ lbs.; Grilse, 4½ lbs.	Limerick.
No.		Galway.
Salmon, 12 lbs.; Grilse, 5½ lbs.	Salmon, 12 lbs.; Grilse, 5½ lbs.	Connemara
Salmon, 11 lbs.; Grilse, 5 lbs	Salmon, 11 lbs.; Grilse, 5 lbs.	Ballinakill
Salmon, 9 lbs.; Grilse, 4 lbs.	Salmon, 10½ lbs.; Grilse, 4½ lbs.	Bangor.
Salmon, 11 lbs.; Grilse, 5 lbs.	Salmon, 10½ lbs.; Grilse, 5 lbs.	Ballina
Salmon, 8 to 20 lbs.; Grilse, 3 to 6 lbs	Salmon, 8 to 14 lbs.; Grilse, 4 lbs.	Sligo.
No; Salmon, 10½ lbs.; Grilse, 6 lbs.	Salmon, 15 lbs.; Grilse, 5½ lbs.	Ballyshannon
Cannot say	Cannot say	Letterkenny
Salmon, 12 lbs.; Grilse, 6½ lbs.	Salmon, 12 lbs.; Grilse, 6½ lbs.	Londonderry.
Salmon, 10 lbs.; Grilse, 6 lbs	Salmon, 12 lbs.; Grilse, 6 lbs.	Coleraine.
Salmon, 12 lbs.; Grilse, 6½ lbs.	Salmon, 12 lbs.; Grilse, 6 to 7 lbs.	Ballycastle.
Salmon, 10 lbs; Grilse, 5 lbs	Salmon, 10 lbs.; Grilse, 5 lbs.	Dundalk.
No.	Decrease in size.	Drogheda.

## APPENDIX

## SUBSTANCE of REPORTS received from Clerks of

DISTRICT.	Has any sign of disease been observed among the Salmon during the year ? If so, describe it, and state if it has prevailed to any extent, and where ?									
	1921.					1920.				
Dublin	No.	..	..	..	..	No	...	...	...	...
Wexford	A few fish suspected of being diseased were observed at Clohamon.					No	...	...	...	...
Waterford	No.	..	..	..	..	No	...	...	...	...
Lismore	No.	..	..	..	..	No	...	...	...	...
Cork	No.	..	..	..	..	No	...	...	...	...
Cork (Bandon)	No.	..	..	..	..	No	...	...	...	...
Skibbereen	No.	..	..	..	..	No	...	...	...	...
Bantry	No.	..	..	..	..	No	...	...	...	...
Kenmare	No.	..	..	..	..	No	...	...	...	...
Waterville	No.	..	..	..	..	No	...	...	...	...
Killarney	No.	..	..	..	..	No	...	...	...	...
Limerick	No.	..	..	..	..	No	...	...	...	...
Galway	No.	..	..	..	..	No	...	...	...	...
Connemara	No.	..	..	..	..	No	...	...	...	...
Ballinakill	No.	..	..	..	..	No	...	...	...	...
Bangor	No.	..	..	..	..	No	...	...	...	...
Ballina	No.	..	..	..	..	No	...	...	...	...
Sligo	Yes, some fish taken were affected by a species of scab.					No	...	...	...	...
Ballyshannon	No.	..	..	..	..	No	...	...	...	...
Letterkenny	No.	..	..	..	..	No	...	...	...	...
Londonderry	No.	..	..	..	..	No	...	...	...	...
Coleraine	No.	..	..	..	..	No	...	...	...	...
Ballycastle	No.	..	..	..	..	No	...	...	...	...
Dundalk	No.	..	..	..	..	No	...	...	...	...
Drogheda	No.	..	..	..	..	No	...	...	...	...

No. 17—*continued.*

CONSERVATORS relative to SALMON FISHERIES.—*continued.*

Can you give any information about the run of Salmon and Grilse in each month of the close season.		DISTRICT.
1921.	1920.	
A good run of salmon took place in the Liffey in December and January; grilse observed at end of August and during September.	A good number of salmon ran in December and January. Some grilse seen in August and September.	Dublin
The principal runs take place from October to December.	No; except principal runs in November and December.	Wexford
No .. .. .	No. .. .. .	Waterford
A good run of salmon took place in the main river in October and November.	A good run of salmon took place during October and November in the main river only.	Lismore
Fish ran well to the upper waters; good floods throughout winter.	No. .. .. .	Cork
A run principally of grilse, took place in November.	No. .. .. .	Cork (Bandon)
A good run in November .. .. .	No. .. .. .	Skibbereen
No .. .. .	No. .. .. .	Bantry
No .. .. .	No. .. .. .	Kenmare
Salmon ran each month; no grilse observed ..	Salmon ran each month; grilse from June to end of year.	Waterville
A run of salmon took place at end of October and November, after floods.	Salmon ran in slightly larger quantities, and grilse in slightly smaller quantities.	Killarney
A late run took place during October and November.	There was a run during October and November.	Limerick
Fish ran each month .. .. .	A certain number of runs took place each month of the year.	Galway
There was no run from the sea during the close season except a few spring salmon. Runs of breeding fish from the lower and middle waters to the upper reaches and spawning grounds took place during November and December.	There is no run from the sea during the close season, except a few spring salmon. Breeding fish run from the lower and middle waters to the upper reaches and the spawning grounds during November and December.	Connemara
No .. .. .	No. .. .. .	Ballinakill
No .. .. .	No. .. .. .	Bangor
No .. .. .	No. .. .. .	Ballina
No .. .. .	No. .. .. .	Sligo
No .. .. .	No. .. .. .	Ballyshannon
No .. .. .	No. .. .. .	Letterkenny
The run was poor .. .. .	No run of salmon since the close of past open season.	Londonderry
Runs took place from beginning of June to December in each flood.	Salmon ran with each flood from March to end of October.	Coleraine
Fish ran rather late in all rivers .. .. .	A few fish enter from the sea during the close season. There is always a big run of fish in the upper reaches in October and November. Fish run late in the Glendua, Glencloy, and Cusheadall Rivers.	Ballycastle
A run of salmon took place in November ..	Unusually large run of salmon was observed towards the end of October and during November.	Dundalk
No .. .. .	No .. .. .	Drogheda

## APPENDIX

## SUBSTANCE of REPORTS received from Clerks of

DISTRICT.	Have there been any cases of poisoning the rivers in the District? If so, give particulars of the different cases, and if by Lime, Spurge, or Flax Water.	
	1921.	1920.
Dublin ..	No .. .. .	Occasional pollution by effluent from distillery.
Wexford ..	No .. .. .	No. .. .. .
Waterford ..	No .. .. .	No. .. .. .
Lismore ..	No .. .. .	No. .. .. .
Cork ..	—	Two cases of poisoning by spurge.
Cork (Bandon)	Poisoning by spurge in Bandon river. ..	Two cases by spurge and two cases of use of dynamite.
Skibbereen ..	One case of poisoning by spurge ..	No. .. .. .
Bantry ..	Yes. In all rivers by spurge ..	Poisoning by spurge in all the rivers. ..
Kenmare ..	Poisoning by spurge in Rivers Roughy and Sheen.	Ten cases of poisoning in River Roughy, one case in Blackwater River, three cases in Sheen River and four cases in Slaheuy River.
Waterville ..	No .. .. .	No. .. .. .
Killarney ..	No. .. .. .	One case of poisoning by lime. ..
Limerick ..	One case of poisoning by spurge ..	No. .. .. .
Galway ..	No .. .. .	No. .. .. .
Connemara ..	No .. .. .	No. .. .. .
Ballinakill ..	No .. .. .	No. .. .. .
Bangor ..	No .. .. .	No. .. .. .
Ballina ..	No .. .. .	A reduced number of cases of poisoning by flax water.
Sligo ..	Cases of fish destroyed by dynamite and hand grenades.	Cases recorded of fish destroyed by dynamite and flax water.
Ballyshannon ..	No .. .. .	No. .. .. .
Letterkenny ..	Some cases of flax water pollution ..	Poisoning by flax water took place ..
Londonderry ..	Great destruction by flax water ..	Great destruction of fish by flax water ..
Coleraine ..	About forty cases of flax water pollution ..	Forty-five cases of poisoning by flax water ..
Ballycastle ..	No .. .. .	Some cases of flax water pollution. ..
Dundalk ..	Cases of poisoning rivers by flax water in Down and Armagh.	Cases of poisoning by flax water have occurred ..
Drogheda ..	Yes. Four cases of poisoning by flax water ..	Cases of poisoning by flax water ..

No. 17—continued.

CONSERVATORS relative to SALMON FISHERIES—continued.

Have offences against the Fishery Laws increased or diminished? What proportion (approximately) may be attributed to those who took out Licences and those who did not?		DISTRICT.
1921.	1920.	
Diminished. No offences by licensed persons.	Diminished. Mostly by unlicensed persons.	Dublin.
Increased.	Diminished. Mostly by unlicensed persons.	Wexford.
Increased.	Diminished.	Waterford.
Diminished. Offences chiefly by licensed persons.	Diminished. Mostly by licensed persons.	Lismore.
Increased.	None.	Cork.
Diminished except for an increase of cases of poisoning by unlicensed persons.	Diminished. Mostly by unlicensed persons.	Cork (Bandon).
Diminished. No offences by licensed persons.	Diminished. Offences by unlicensed persons.	Skibbereen.
Diminished.	Increased. Offences by unlicensed persons.	Bantry.
Increased. No offence by licensed persons.	Increased. No offences committed by licensed persons...	Kenmare.
Diminished; No offence committed by licensed persons.	Increased. No offences by licensed persons.	Waterville.
Decreased; No offences by licensed persons.	Diminished. Practically all by unlicensed persons.	Killarney.
Increased.	Diminished.	Limerick.
Diminished; no offences by licensed persons.	Diminished. No offences by licensed persons.	Galway.
Normal; no offences by licensed persons.	Diminished. No offences by licensed persons.	Connemara.
Increased offences by unlicensed persons.	Increased. No offences by licensed persons.	Ballinakill.
Increased.	Increased.	Bangor.
Increased; no offences by licensed persons.	Diminished. No offences by licensed persons.	Ballina.
Increased considerably by about 8 unlicensed persons to one licensed.	Increased.	Sligo.
Diminished; No offences by licensed persons reported.	Diminished.	Ballyshannon.
Increased.	Increased.	Letterkenny.
Diminished; none by licensed persons.	Poaching offences diminished. Flax water offences increased.	Londonderry.
Slight increase; no offences by licensed persons.	Diminished. Very few offences by licensed persons.	Coleraine.
No offences.	Diminished. No offences by licensed persons.	Ballycastle.
Diminished. No offences by licensed persons.	No change. One-fourth of offences by licensed persons.	Dundalk.
Increased.	Diminished.	Drogheda.



## APPENDIX

## SUBSTANCE of REPORTS received from Clerks of

DISTRICT.	Has the quantity of Breeding Fish observed in the rivers in your District during this winter been greater or less as compared with last winter ?	
	1921.	1920.
Dublin ...	Greater	Greater
Wexford ...	About the same	Greater
Waterford ...	Greater	About the same
Lismore ...	Much greater	Greater
Cork ...	About the average	Greater
Cork (Bandon)	Less	Very much greater
Skibbereen ...	No change observed	About the same
Bantry ...	Less	Less
Kenmare ...	About the same	Greater in some ; less in others
Waterville ...	About the same	About the same
Killarney ...	About the same	Greater in Rivers Laune and Maine ; less in tributary rivers.
Limerick ...	Much greater	Greater
Galway ...	Greater	Brown trout greater ; salmon less
Connemara ...	Salmon greater ; sea trout less	Trout greater ; salmon less
Ballinakill ...	About the same	About the same
Bangor ...	About the same	Much greater
Ballina ...	About the same	Slightly less
Sligo ...	Greater	Greater
Ballyshannon	About the same	Less
Letterkenny ...	Greater where reports available	About the same
Londonderry...	About the same	Less
Coleraine ...	Much greater	Trout greater ; salmon less
Ballycastle ...	Average hardly maintained	Greater
Dundalk ...	Less	About the same
Drogheda ...	Greater	Greater

NO. 17—*continued.*

CONSERVATORS relative to SALMON FISHERIES.—*continued.*

In what Rivers has the quantity of Breeding Fish increased ?		DISTRICT.
1921.	1920.	
In River Liffey .. .. .	Liffey .. .. .	Dublin.
In none .. .. .	Slaney .. .. .	Wexford.
In whole district .. .. .	None .. .. .	Waterford.
In the main river .. .. .	Blackwater .. .. .	Lismore.
In none .. .. .	All rivers .. .. .	Cork.
In none .. .. .	All rivers in District .. .. .	Cork (Bandou,
In none .. .. .	None .. .. .	Skibbereen.
In none .. .. .	None .. .. .	Bantry.
In Blackwater and Derreen Rivers	In rivers Blackwater, Sheen and Derreen	Kenmare.
In none .. .. .	None .. .. .	Waterville.
In certain tributaries of the Rivers Maine and Laune.	Laune and Maine .. .. .	Killarney.
In Rivers Boyle, Smerla, Feale and Mulkear.	In Rivers Boyle, Smerla and Feale	Limerick.
In all rivers .. .. .	Brown trout in all rivers .. .. .	Galway.
In all rivers save the Inver .. .. .	Trout increased in all rivers .. .. .	Connemara.
None .. .. .	None .. .. .	Ballinakill.
In Rivers Bangor, Glenamoy, Glencullen, Glenturk and the Salmon Leap.	Owenduff, Newport, Yellow, Shramore, Bangor and Glenamoy.	Bangor.
In lower portion of Bunree River	Trinogue .. .. .	Ballina.
In Ballysodare and Bonet Rivers	All rivers in District .. .. .	Sligo
In small tributaries .. .. .	None .. .. .	Ballyshaanon.
In Swilly River .. .. .	None .. .. .	Letterkenny.
In none .. .. .	None .. .. .	Londonderry.
In all rivers .. .. .	In all rivers trout increased; salmon in none.	Coleraine
In Bush and Glenarm .. .. .	Bush and Glenarm .. .. .	Ballycastle.
In none .. .. .	None .. .. .	Dundalk.
In rivers Mattock, Carlinstown, Stonyfort, Deal, Castlegordan, and Longwood.	Mattock, Carlinstown, Stonyport, Castlegordan, Deal, Longwood and Blackwater.	Drogheda.

## SUBSTANCE of REPORTS received from Clerks of

DISTRICT.	In what Rivers has the quantity of Breeding Fish decreased ?	
	1921.	1920.
Dublin ...	In none	In none
Wexford ...	Slight decrease in all rivers ..	In Rivers Derreen, Boro, Urin and Douglas.
Waterford ...	In none	None ..
Lismore ...	In all the tributaries ..	In all the tributaries
Cork ...	In none	In none
Cork (Bandon)	In all rivers ..	In none
Skibbereen ...	In none	In none
Bantry ...	In all rivers ..	In all ..
Kenmare ...	In Roughty, Sheen and Sneem Rivers.	In River Roughty ..
Waterville ...	In none.	In none
Killarney ...	In Caragh River and tributaries.	In Rivers Giddock, Lowe and tributaries of the Laune and Maine.
Limerick ...	In none	In none
Galway ...	In none	Salmon in all with the exception of River Maam.
Counnemara ...	In River Inver	Salmon slightly decreased in all rivers.
Ballinakill ...	In none	In none
Bangor ...	In Rivers Yellow and Shramore ..	In River Glenamoy..
Ballina ...	In Rathfron River ..	In River Bunree ..
Sligo ...	In Glencar District	In none
Ballyshannon	In the large rivers generally	In all ..
Letterkenny ...	—	In none
Londonderry...	In none	In all ..
Coleraine ...	In none	In all ..
Ballycastle ...	In Rivers Margey, Glenshesk, Glendun, Cushendall, and Glencloy ..	In River Glendun ..
Dundalk ...	In Rivers Glyde, Fane and Dee ..	In none
Drogheda ...	In Rivers Athboy and Clonard	In none ..

NO. 17—*continued.*

CONSERVATORS relative to SALMON FISHERIES—*continued.*

Was the state of the Rivers favourable or unfavourable to spawning, and to the protection of spawning and spent fish and young fry?		DISTRICT.
1921.	1920.	
Favourable in all rivers	Favourable in all rivers in the District.	Dublin.
Favourable	Favourable	Wexford.
Favourable	Favourable in all rivers	Waterford.
Most favourable to spawning and favourable to spent fish and young fry in all rivers.	Very favourable	Lismore.
Favourable	Unfavourable early in season; favourable later.	Cork.
Favourable	Favourable	Cork (Bandon).
Favourable in all rivers	Favourable	Skibbereen.
Favourable in all rivers	Favourable in all rivers	Bantry.
Favourable in all rivers	Favourable in all rivers	Kenmare.
Favourable	Favourable	Waterville.
Favourable	Favourable to spawning	Killarney.
Very favourable	Very Favourable	Limerick.
Favourable	Favourable in all rivers	Galway.
Favourable	Favourable except from 10th to 18th December.	Connemara.
Unfavourable	Favourable	Ballinakill.
Favourable	Favourable	Bangor.
Favourable in lower portions of all rivers; unfavourable in upper portions	Favourable in all rivers	Ballina.
Favourable	Unfavourable owing to floods	Sligo.
Unfavourable	Favourable	Ballyshannon.
Favourable	Favourable at beginning of season; unfavourable at end of season.	Letterkenny.
Favourable	Favourable in all rivers	Londonderry.
Favourable	Favourable	Coleraine.
Favourable	Favourable for protection, but floods may have swept away young fry.	Ballycastle.
Unfavourable until late in spawning season	Favourable for protection but floods may have swept away young fry.	Dundalk.
Favourable from about 20th November.	Favourable	Drogheda.

## APPENDIX No. 17—continued.

SUBSTANCE of REPORTS received from Clerks of CONSERVATORS relative to  
SALMON FISHERIES—continued.

DISTRICT.	Any particular observations regarding Breeding Fish ?	
	1921.	1920.
Dublin	—	—
Wexford	—	—
Waterford	—	—
Lismore	—	—
Cork	Cormorants, otters and seals were destructive to fry.	Late fish appear to be larger.
Cork (Bandon)	—	Spawning was earlier than usual
Skibbereen	—	—
Bantry	—	—
Kenmare	Owing to poaching and poisoning in Rivers Sneem and Roughty, the number of spawning fish was diminished.	—
Waterville	—	—
Killarney	—	—
Limerick	—	—
Galway	—	—
Connemara	—	Last salmon observed spawning on 12th January in Glen Inagh river.
Ballinakill	—	—
Bangor	—	—
Ballina	Low water prevented spawning in upper reaches until floods in December.	Water was high throughout the spawning season which prevented poaching.
Sligo	—	—
Ballyshannon	—	—
Letterkenny	—	—
Londonderry	—	—
Coerraine	There was an average of three female fish to one male.	Among salmon captured for hatching purposes there was an average of four females to one male
Ballycastle	—	—
Dundalk	—	—
Drogheda	—	—



APPENDIX NO. 18.

Output of Salmon and Trout Fry in Ireland during the season 1921-22.

	Hatching or Enlarging Station.	System.	Salmon.	Trout.
1.	Zoological Gardens, Dublin ..	Liffey .. ..	7,000	13,000
2.	Aasleagh .. ..	Etriff .. ..	70,700	—
3.	Glenties .. ..	Owenea .. ..	11,700	—
4.	Newtownstewart .. ..	Foyle .. ..	197,000	—
5.	Kilrea .. ..	Bann and Moyrea ..	577,800	—
6.	Bushmills .. ..	Bush .. ..	735,000	—
7.	Newtownbarry .. ..	Slaney .. ..	30,000	—
8.	The Reeks .. ..	Laune .. ..	15,000	—
9.	Glencar .. ..	Caragh .. ..	7,000	—
10.	Lismore .. ..	Blackwater .. ..	3,034,500	—
		Totals .. ..	4,685,700	13,000

APPENDIX No. 19.

ABSTRACT OF BY-LAWS, ORDERS, &c., which have come into force since the date of the Report for the year 1920.

SEA FISHERIES.

Netting—Dundrum Bay.—Dated 3rd November, 1920.

1. Prohibiting to anchor, moor or make fast, for the purpose of, or any purpose accessory to, fishing with a Net known as a Danish Seine (or any Seine or Draft Net by whatsoever name known) hauled by steam or motor power, any boat, buoy, pole, or other contrivance in such a manner that it shall be or come within or to the Westward of a straight line drawn across Dundrum Bay through the Roaring Rock in a direction  $20^{\circ} 40'$  East of true North that is to say in the direction of the Buoy at Dundrum Bar.

2. Prohibiting to use any warp or warps exceeding in length five hundred fathoms attached to either wing of any Net hauled by steam or motor power in any part of Dundrum Bay within or to the Westward of a limit formed by a straight line from Mullartown Point to St. John's Point.

3. Prohibiting to set or use any trammel or plaice net or other net for the capture of fish within or to the Westward of a straight line drawn from Mullartown Point to St. John's Point, unless there be attached to each end of such net in such manner as to be visible at the surface at all stages of tide one fully distended fishing buoy of tarred canvas with wooden base having a length of not less than 13 inches (including the wooden base) and a circumference measured at the widest part when distended of not less than 24 inches, and it is further prohibited to set or use any such net exceeding 200 yards in length, measured on the head rope, in the area above specified unless there be similarly attached to the middle of its length a third buoy of like size and pattern fully distended.

Transfers of Fixed Net Certificates which have been made since date of last Report.

BANGOR DISTRICT.

Certificate No. 110 for two Bag Nets to be used in the sea off the County of Mayo, was, on the 24th August, 1921, transferred to the Congested Districts Board for Ireland.

BALLYCASTLE DISTRICT.

Certificate No. 100 for one Fixed Draft Net to be used in the sea off the County of Antrim, was, on the 12th October, 1921, transferred to Arthur McAlister of Cushendall, County Antrim.



